

Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Richland**

Print Date: **3/9/2000**

Site Summary Level: **Hanford Site**

HQ ID: **0420**

Project **RL-ER06 / Decontamination and Decommissioning**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

Purpose: This PBS provides for the management and integration of decontamination and decommissioning of facilities assigned to the ER Project. The facilities are located throughout the Hanford Site.

Work scope within this PBS includes the following:

- Managing and integrating the characterization, decontamination, and decommissioning of inactive facilities assigned to the ER Project.
- Managing and integrating the interim safe storage and final disposition of the surplus reactors.

Scope: Scope: The Hanford Site contains many surplus facilities remaining from plutonium production activities that were required by the Department of Defense from World War II through the Cold War. Those facilities are aged and deteriorating. Because the facilities now have no production mission, they must either be maintained (to preserve their integrity) or removed so as to preclude the escape of potentially hazardous substances into the accessible environment or collate unacceptably hazardous conditions for the workers who must maintain them.

The primary objective of the Decontamination and Decommissioning (D&D) Project is to eliminate potential environmental, human health, and safety hazards by maintaining and eventually dispositioning the surplus, inactive facilities located at the Hanford Site.

D&D efforts at the Hanford Site will proceed on a priority-based path that results in an expedient and cost-efficient transition of facilities to a safe and stable condition (including demolition) that present that presents no significant threat of release of hazardous substances to the environment, and no significant risk to human health.

Technical Approach: The D&D Project will achieve cleanup goals through decontamination in conjunction with demolition and/or entombment of facilities. The wastes generated through the D&D Project will typically be disposed in the Environmental Restoration Disposal Facility (ERDF). Surplus facilities that are currently in the ER program will be characterized in preparation for D&D activities. Hazardous substances will be removed from the facilities and radiological contamination will be removed or fixed prior to demolition activities. Clean structures will be removed to below grade (3ft), collapsed in place, and covered with clean soil for site restoration. Contaminated facilities will be removed and disposed at (ERDF). Soil contamination sites in close proximity to the surplus facilities, and soil contamination under the facilities, may be remediated during D&D. If the contamination in the soil is extensive the work will transfer to the Remedial Action Project.

The 100 Area ancillary facilities will be D&D with any wastes being disposed of in the ERDF. The 100 Area reactors are assumed to be placed in interim safe storage with final disposition being one-piece removal and burial in the 200 Area. Interim safe storage is a planning assumption only. Currently a team of regulators, DOE, and contractor staffs are negotiating a path forward for the 100 Area reactors.

The majority of 200 Area facilities will be D&D with any waste being disposed of in the ERDF. The exceptions are the 200 Area canyon facilities, which are assumed (for planning purposes only) to be demolished in place and covered by a barrier. The 200 Area Canyon Strategy development is

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being initiated in FY97. This activity will evaluate alternatives for the D&D of these facilities. The final decision will be through a Record of Decision.

The 300 Area facilities will be D&D with any waste being disposed of in the ERDF.

The technologies used for D&D consist of standard construction demolition techniques (i.e., wrecking ball, shears, excavator, explosives, etc.)

Technology needs are identified at the project level. These needs are subsequently endorsed by the Hanford Site Technology Coordination Group.

The following technology needs have been identified as high priority for D&D:

Cutting technologies for size reduction of radioactive equipment and materials.

Improved techniques for removal of fixed surface contamination.^{1 1 1}

Improved characterization techniques for differentiation of contaminated and non-contaminated materials.

Improved techniques for the cleanup of reactor basin water.

The interim safe storage of the C Reactor was being utilized as an integrated demonstration of D&D technologies with EM-50.

Project Status in FY 2006:

Through FY06 79 facilities will undergo D&D in the 100 Areas and one will be D&D in the 200 Area. Additionally 3 of the nine surplus reactors in the 100 Area will be placed into interim safe storage.

Post-2006 Project Scope:

102 facilities will remain to be D&D in the 100 Areas. Several hundred 200, and 300 Area facilities will remain to be D&D. Included in this group are five canyon facilities and the Plutonium Finishing Plant.

Project End State

The D&D Project will support the goals and end states for the areas of the Hanford Site that are referenced in the Hanford Site Strategic Plan as the Reactors on the River, the Central Plateau, and the South 600 Area.

Reactors on the River Goal: Remove and/or stabilize spent fuel, surplus facilities, and waste sites to protect groundwater and the Columbia River, and ensure protection of people, the environment, and natural/cultural resources. Pending Congressional action on the Wild and Scenic River designation, use will continue to be restricted and sensitive ecological, cultural, and native American resources will be protected.

Facilities End State

Reactors placed in interim safe storage for up to 75 years pending future removal.

Reactor blocks transported to Central Plateau for disposal.

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Removal of non-essential, surplus buildings and facilities that do not have identified post-cleanup uses.

Central Plateau Goal: The 200 Areas and Central Plateau will be used for the management of nuclear materials and for the collection and disposal of waste materials that remain onsite and for other related and compatible uses. Cleanup levels and disposal standards will be established that are consistent with these long-term uses.

Dismantle, or close through entombment, D&D facilities currently assigned to the ER program.

Remove non-essential, surplus buildings and facilities that don't have identified post- cleanup uses.

South 600 Area Goal: The 300 Area waste sites, materials and facilities will be remediated to allow industrial and economic diversification opportunities. The federal government will retain ownership of land in and adjacent to the 300 and 400 Areas, but will lease land for private and public uses to support regional industrial and economic development. Excess land within the 1100 area will be targeted for transition to non-federal ownership.

Facilities End State

Reuse facilities for economic diversification where feasible.

Remove non-essential, surplus buildings and facilities that don't have identified post-cleanup uses.

* Specific facility-by-facility end states and completion milestones are yet to be established.

Cost Baseline Comments:

The cost estimates for the ER Project are developed through the use of MCACES and RACER models and activity based estimates for project activities like program management and support. The contingency for outyears was developed through the use of a "MonteCarlo" analysis and selection of an acceptable level of risk.

Safety & Health Hazards:

The Richland Environmental Restoration (ER) Project's primary responsibilities are the cleanup of past-practice waste sites, addressing the contaminated groundwater, and decontamination and decommissioning of surplus facilities. In 1987 the Hanford Site Federal Facility Agreement and Consent Order (TPA) was signed by EPA, Ecology, and DOE. This agreement is the primary driver for essentially all of ERC's remediation and D&D activities.

The Hanford Site can be grouped into four primary areas: 100, 200, 300, and the remainder of the Hanford Site. This ADS addresses ES&H and mission components associated with final design and decommissioning of surplus facilities located in the 100, 200, and 300 Areas.

During the years of special nuclear materials (SNM) production numerous facilities were constructed, modified, and shut down in the 100, 200, and 300 Areas. In many cases the deactivation activities and the facility surveillance and maintenance (S&M) were limited. As a result, when the mission of the Hanford Site changed from SNM production to cleanup, the D&D Project was left with a group of facilities that were in poor physical condition,

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contained waste in numerous forms, and presented serious industrial hazards to the workers on the Hanford Site. The focus of ER D&D Project is to decommission those facilities that present a serious immediate threat to workers and the environment, place the surplus reactors in an Interim Safe Storage (ISS) mode, and demolish facilities along the Columbia River in the 100 Areas. These activities address a primary regulator priority, as well as stakeholder and Tribal Nation values relative to protection of the Columbia River. All D&D work will be integrated with the Remedial Action Project to achieve a cost effective approach.

Approximately 243 facilities are currently in the ER D&D Project and are either undergoing D&D or are in the surveillance and maintenance (S&M) portion of the D&D Project. N Reactor and its ancillary facilities will be decommissioned as part of the work scope governed by this PBS. The remainder of the facilities are either operational, are undergoing shut down procedures, or are being deactivated for transition to the ER D&D Project sometime in the future. This PBS is responsible for the D&D of all facilities currently assigned and transitioned to the ERC. Responsibilities include: management, planning, engineering, and documentation necessary to complete the D&D design and implementation of the associated D&D activities.

Eight of the nine surplus reactors will be placed in interim safe storage (ISS) by FY2016. This PBS funds the removal of ancillary structures from the reactor building and the sealing of the reactor facilities at the primary shielding wall to prevent personnel and environmental intrusions.

Each subproject will conduct a hazard analysis evaluation or an operational readiness review, as necessary.

Safety & Health Work Performance:

The resources necessary to accomplish the work safely are provided through the Authorization Basis, the Site Health and Safety Program requirements, and through the resources allocated to the site's integrated safety management system in the following functional categories: radiological controls, emergency management, fire protection, industrial hygiene, industrial safety, occupation medical services, management and oversight, transportation safety, nuclear safety and management oversight.

ER resources are planned and allocated into these categories by functional responsibility through the work breakdown structure and resource loaded into the project for each fiscal year. Average hourly labor rates vary among projects based on the work scope and related skills mix.

The Emergency Preparedness functional task includes inspection of emergency facilities and equipment; emergency response team personnel training, drills and exercises relative to personnel contamination; construction accident response; maintaining/updating the current emergency plan based on site-specific hazards; coordination with state and local authorities and federal agencies; responses to worker injuries; and recordable occurrences and of normal events.

The Fire Protection functional task includes related inspections and testing; flammable and explosive material control; review design plans/specifications for compliance with regulations, codes, and standards; and review and concurrence of work packages.

The Industrial Hygiene functional task includes the Chemical Management system, anticipation, recognition, evaluation and control of health hazards; redesign of equipment and tasks; review and approval of work packages; design of airborne fiber wetting systems; respiratory protection standards; respiratory protection equipment supplies; substitution of less hazardous materials; written and verbal communication of real and perceived hazards;

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personnel protection, and asbestos fiber counts and sample analysis.

The Industrial Safety functional area includes electrical safety; machinery and pressure system safety; hoisting; rigging, and material handling, lockout/tagout; confined space controls; platform, man-lift and scaffolding usage; safe surfaces for walking and working; hand and portable power tool safety; explosives and hazardous material handling, construction safety; review of work packages; site surveillances or subcontractor review.

The Management and Oversight functional task includes S&H documentation, action tracking; S&H self assessment activities; internal audits and surveillance; external S&H program reviews; operational readiness reviews; and Voluntary Protection Program (VPP); trend analysis; lessons learned; coordination and communication with DOE, state and local authorities.

The Management, Oversight, and Reporting functional task includes the coordination of project environmental protection plans, documentation and control, information management, compliance and corrective action tracking, appraisals and self assessments and general environmental monitoring and coordination.

The Occupational Medical Services function task includes medical scheduling, labor and industries, and OSHA reporting; oversight of the Site Occupational Medical provider; hazardous worker or asbestos worker pre/post-job medical screening coordination, tracking; and case management.

The Nuclear Safety functional task includes providing direction for the implementation of DOE Orders and Standards related to nuclear safety. In addition, the functional group assists the projects in the development, implementation, and oversight of the safety analysis process.

The Radiation Protection functional task includes radiation monitoring equipment and procedures for radiation controls, oversight of personnel and facilities, radiation control monitoring, interlocks, instrumentation for shielding for radiation-generating devices; equipment and procedures used to minimize or mitigate external exposures; and personnel dosimetry, bioassay program, and radiation-exposure records.

The Transportation Safety functional task includes the activities required to ensure safe packaging and transportation of asbestos, radioactive and hazardous materials, and approval of D.O.T. shippers and container documentation. NOTE: The amount of funding made available for this PBS in any fiscal year will determine the work that will be performed, which will, in turn, be a basis for adjustment in the associated S&H requirements.

PBS Comments:

The focus of the D&D Project in the Ten-Year Plan is the D&D of facilities that pose an immediate threat to workers and the environment, D&D of the 100 ancillary facilities, and the interim safe storage of the reactors. The D&D in the 100 Areas is a high priority for the regulators, stakeholders, and Tribal Nations. The teamwork and cooperation of all of the parties have resulted in the Richland ER Project being in the position to demonstrate significant and tangible progress.

Baseline Validation Narrative:

Baseline validation by Team Associates for DOE.

Validation Report - Richland Environmental Restoration Project 1996 Baseline Validation, May 1996.

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The DOE requested an independent contractor, Team Associates, to perform a validation of the Richland Environmental Restoration Project. This validation was a follow up of the validation performed for the 1995 Baseline. Estimate models with near-term implementation schedules and total project summary costs were reviewed. The validation was broken down into three distinct efforts consistent with the validation objectives.

- 1) An in-depth review of MCACES models provided by DOE was performed
- 2) A review of near-term schedules for 100 BC and 300 FF areas to evaluate reasonableness and feasibility of achievement.
- 3) A top down assessment of the cost estimating process for consistency of approach to identify opportunities for improvement.

There is a formal validation of the current baseline (developed in October 1998 and approved in January 1999) scheduled for March 1999.

General PBS Information

Project Validated? Yes **Date Validated:** 5/31/1996

Has Headquarters reviewed and approved project? Yes

Date Project was Added: 12/1/1997

Baseline Submission Date:

FEDPLAN Project? Yes

Drivers:	CERCLA	RCRA	DNFSB	AEA	UMTRCA	State	DOE Orders	Other
	Y	Y						

Project Identification Information

DOE Project Manager: J. D. Goodenough

DOE Project Manager Phone Number: 509-376-0893

DOE Project Manager Fax Number: 509-376-4360

DOE Project Manager e-mail address: richard_a_holten@rl.gov

Is this a High Visibility Project (Y/N):

Planning Section

Baseline Costs (in thousands of dollars)

1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006
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Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006	
PBS Baseline (current year dollars)	189,919	3,447,604	3,637,523	13,283	12,500	11,761	20,511	11,539	13,413	15,430	25,855	27,108	26,605	23,806	21,119	
PBS Baseline (constant 1999 dollars)	173,302	1,633,859	1,807,161	13,283	12,500	11,761	20,511	11,539	13,060	14,629	23,846	24,320	23,196	20,210	17,458	
PBS EM Baseline (current year dollars)	189,919	3,447,604	3,637,523	13,283	12,500	11,761	20,511	11,539	13,413	15,430	25,855	27,108	26,605	23,806	21,119	
PBS EM Baseline (constant 1999 dollars)	173,302	1,633,859	1,807,161	13,283	12,500	11,761	20,511	11,539	13,060	14,629	23,846	24,320	23,196	20,210	17,458	
	2007	2008	2009	2010	2011- 2015	2016- 2020	2021- 2025	2026- 2030	2031- 2035	2036- 2040	2041- 2045	2046- 2050	2051- 2055	2056- 2060	2061- 2065	2066- 2070
PBS Baseline (current year dollars)	28,993	33,420	35,056	37,583	154,740	338,911	780,671	743,504	488,106	483,813	322,807	0				
PBS Baseline (constant 1999 dollars)	23,337	26,193	26,753	27,927	106,227	203,640	410,577	342,261	196,669	170,628	99,647	0				
PBS EM Baseline (current year dollars)	28,993	33,420	35,056	37,583	154,740	338,911	780,671	743,504	488,106	483,813	322,807	0				
PBS EM Baseline (constant 1999 dollars)	23,337	26,193	26,753	27,927	106,227	203,640	410,577	342,261	196,669	170,628	99,647	0				

Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
0.00%	0.00%	0.00%	2.70%	2.70%	2.80%	2.80%	2.90%	2.70%	2.70%	2.70%	2.70%	2.70%

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2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%

Project Reconciliation

Project Completion Date Changes:

Previously Projected End Date of Project: 9/30/2030

Current Projected End Date of Project: 9/30/2043

Explanation of Project Completion Date Difference (if applicable):

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	1,740,805	Actual 1997 Cost:	12,500	Actual 1998 Cost:	20,511
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	1,707,794	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):			46,110
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	1,753,904				

Project Cost Changes

Cost Adjustments Reconciliation Narratives

Cost Change Due to Scope Deletions (-):

Cost Reductions Due to Efficiencies (-):

Cost Associated with New Scope (+):

Cost Growth Associated with Scope Previously Reported (+):

Cost Reductions Due to Science & Technology Efficiencies (-):

Subtotal: 1,753,904

Additional Amount to Reconcile (+): 28,213

Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars): **1,782,117**

Milestones

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Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
SUBMIT 105-B HAZARDS ASSESSMENT AND CHARACTERIZATION RPT TO EPA	M-93-04	6/30/1999	6/30/1999	6/30/1999	4/30/1999		Y				
INITIATE 105-F ISS CHARACTERIZATION AND DESIGN	M-93-07	10/31/1999	10/31/1999	10/31/1999		3/31/1998	Y				
ISSUE B REACTOR PHASE II FEASIBILITY STUDY ENG. DESIGN RPT FOR CO	M-93-05	6/30/2000	6/30/2000	6/30/2000	6/30/2000		Y				
INITIATE 105-F ISS FIELD ACTIVITIES	M-93-09	10/31/2000	10/31/2000	10/31/2000		3/25/1998	Y				
ISSUE 105-DR DISPOSITION COMPETITIVE PROCUREMENT PACKAGE	M-93-12	2/28/2002	2/28/2002	2/28/2002	2/28/2002		Y				
INITIATE CHARACTERIZATION AND DESIGN OF ISS FOR THE 105DR REACTOR	M-93-13	10/31/2002	10/31/2002	10/31/2002		3/9/1998	Y				
COMPLETE 100-N AREA DECONTAMINATION & DECOMMISSIONING	M-16-01	12/31/2049	12/31/2049	12/31/2049	9/30/2017		Y				
INITIATE NEGOTIATION OF REMAINING SURPLUS REACTOR DISP. SCHEDULES	M-93-14	6/30/2003	6/30/2003	6/30/2003	6/30/2003		Y				
SUBMIT 105-F S&M PLAN TO EPA FOR APPROVAL IN PART	M-93-10	7/31/2003	7/31/2003	7/31/2003	7/30/2001		Y				
COMPLETE NEGOTIATION OF REMAINING SURPLUS REACTOR DISP. SCHEDULES	M-93-15	12/31/2003	12/31/2003	12/31/2003	12/31/2003		Y				
COMPLETE FINAL DISPOSITION OF ALL 100 AREA SURPLUS REACTOR BLDGS	M-93-00	12/31/2049	12/31/2049	12/31/2049	9/30/2028		Y				Y
COMPLETE 105-F REACTOR INTERIM SAFE STORAGE	M-93-11	9/30/2003	9/30/2003	9/30/2003	11/30/2001		Y				
Begin Decontamination and Decommissioning Project	PBS-97-031		2/28/1997								
PBS Mission Completion	PBS-MC-031		9/30/2043								
PBS Project End	PBS-PE-031		9/30/2043								

Milestones - Part II

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Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
SUBMIT 105-B HAZARDS ASSESSMENT AND CHARACTERIZATION RPT TO EPA	M-93-04										
INITIATE 105-F ISS CHARACTERIZATION AND DESIGN	M-93-07										Resolve Ecology comments after their review of WATS final report and revise report, if needed. Send Ecology copy of Part 'A' Permit modified to reflect degree of clean closure agreed to by Ecology.
ISSUE B REACTOR PHASE II FEASIBILITY STUDY ENG. DESIGN RPT FOR CO	M-93-05										
INITIATE 105-F ISS FIELD ACTIVITIES	M-93-09										
ISSUE 105-DR DISPOSITION COMPETITIVE PROCUREMENT PACKAGE	M-93-12										
INITIATE CHARACTERIZATION AND DESIGN OF ISS FOR THE 105DR REACTOR	M-93-13										
COMPLETE 100-N AREA DECONTAMINATION & DECOMMISSIONING	M-16-01										
INITIATE NEGOTIATION OF REMAINING SURPLUS REACTOR DISP. SCHEDULES	M-93-14										
SUBMIT 105-F S&M PLAN TO EPA FOR APPROVAL IN PART	M-93-10										
COMPLETE NEGOTIATION OF REMAINING SURPLUS	M-93-15										

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
REACTOR DISP. SCHEDULES											
COMPLETE FINAL DISPOSITION OF ALL 100 AREA SURPLUS REACTOR BLDGS	M-93-00										
COMPLETE 105-F REACTOR INTERIM SAFE STORAGE	M-93-11										
Begin Decontamination and Decommissioning Project	PBS-97-031				Y						Administrative input to document the start of this PBS.
PBS Mission Completion	PBS-MC-031						Y				Administrative input to document the mission completion of this PBS.
PBS Project End	PBS-PE-031				Y						Administrative input to document the project end of this PBS.

Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planned 2004
Fac.														
Decom.- Assess.	NF	85.00	590.00	675.00	1.00		1.00					25.00	20.00	22.0
Fac.														
Decom- Cleanup	NF	77.00	599.00	676.00	13.00		5.00					25.00	20.0	
Tech.														
Deployed	Ntd	6.00	0.00	6.00					5.00	1.00				
Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035	

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Fac.														
Decom.- Assess.	NF	22.00	10.00	8.00	11.00	17.00	24.00	16.00	64.00	45.00	89.00	99.00	103.00	
Fac.														
Decom- Cleanup	NF	20.00	22.00	10.00	8.00	11.00	16.00	25.00	80.00	32.00	80.00	100.00	104.00	
Tech.														
Deployed	Ntd													
Category/Subcategory	Units	Planned 2036 - 2040	Planned 2041 - 2045	Planned 2046 - 2050	Planned 2051 - 2055	Planned 2056 - 2060	Planned 2061 - 2035	Planned 2066 - 2070	Exceptions	Lifecycle Total				
Fac.														
Decom.- Assess.	NF	84.00	38.00						23.00	700.00				
Fac.														
Decom- Cleanup	NF	93.00	49.00	1.00					6.00	700.00				
Tech.														
Deployed	Ntd								15.00	16.00				
Release Sites														
Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	7097	R	THERMAL TREATMENT TEST FACILITIES	/										Y
HASI	7098	R	202-S \ 202S, 202S REDOX, S Plant	/	2006	2006		2007	2007					Y Pending
HASI	7099	R	Wastewater Pond (Building 1324NA)	/	2010									N Pending
HASI	7100	R	Wastewater Pond (Building 1324N)	/	2010									N Pending
HASI	7101	R	Yioactive Solid Waste Disposal (Building 1302N)	/	2010									N Pending

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Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	7102	R	1306-N \ Yioactive Liquid Waste Lines (Building 1306N)BEMR	/	2010	2010						N	Pending	
HASI	7103	R	Yioactive Liquid Waste Lines (Building 1305N)	/	2010							N	Pending	
HASI	7104	R	New Crib (Building 1325N)	/	2010							N	Pending	
HASI	7105	R	PHYSICAL AND CHEMICAL TREATMENT TEST FACILITIES	/								Y		
HASI	7106	R	Old Crib (Building 1301N)	/	2010							N	Pending	Y

Facility Decommissioning

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HASI	2622		Boat storage	\		2002	2002					2003	2003			N		
HASI	2628	R	TRUSAf, 224-T TRUSAf, Transuranic Assay Facility	\														
HASI	2914		HTS service building, West	\		2045	2045					2046	2046			N	Y	
HASI	2915		HTS service building, South	\		2044	2044					2045	2045			N	Y	
HASI	2916		HTS service building, East	\		2044	2044					2045	2045			N	Y	
HASI	2917		Cooling water equipment pad	\		2042	2042					2043	2043			N		
HASI	2919		Alkali metal storage	\		2041	2041					2042	2042			N		
HASI	2921		ICCW equipment building	\		2044	2044					2045	2045			N		
HASI	2922		Flammable storage	\		2039	2039					2040	2040			N		
HASI	2923		Cooling tower, FMEF	\		2040	2040					2041	2041			N		
HASI	2924		Cooling towers	\		2043	2043					2044	2044			N		

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HASI	2925	Main heat dump, South	\		2038	2038					2039	2039			N	Pending	Y
HASI	2931	Nitrogen dewar pad	\		2037	2037					2038	2038			N		
HASI	2934	Painters shop	\		2036	2036					2037	2037			N		
HASI	2936	Cask loading station (Part of 4717)	\		2035	2035					2036	2036			N		
HASI	2937	Reactor service building	\		2043	2043					2044	2044			N		Y
HASI	2938	Interim maintenance & storage FA	\		2034	2034					2035	2035			N		
HASI	2939	Warehouse	\		2031	2031					2032	2032			N		
HASI	2944	FFTF control building	\		2043	2043					2044	2044			N		
HASI	2947	Auxilliary equipment building, West	\		2042	2042					2043	2043			N		
HASI	2948	Auxilliary equipment building, East	\		2042	2042					2043	2043			N		
HASI	2949	Control struct. & process sewer	\		2030	2030					2031	2031			N		
HASI	2950	Sewage treatment plant	\		2029	2029					2030	2030			N		
HASI	2951	Transformer station, West 2.4KV	\		2028	2028					2029	2029			N		
HASI	2952	Transformer station, South 2.4KV	\		2027	2027					2028	2028			N		
HASI	2953	Transformer station, East 2.4KV	\		2026	2026					2027	2027			N		
HASI	2954	Maintenance and storage facility	\		2024	2024					2025	2025			N		
HASI	2955	Fuels & material examination facil.	\		2023	2023					2024	2024			N		
HASI	2957	Closed loop heat dump, West #4	\		2022	2022					2023	2023			N		

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HASI	2958	Closed loop heat dump, West #3 \			2021	2021					2022	2022			N		
HASI	2959	Closed loop heat dump, East #2 \			2019	2019					2020	2020			N		N
HASI	2960	Closed loop heat dump, East #1 \			2018	2018					2019	2019			N		N
HASI	2961	Main heat dump, West	\		2042	2042					2043	2043			N		Y
HASI	2962	Main heat dump, South	\		2041	2041					2042	2042			N	Pending	Y
HASI	2963	Main heat dump, East	\		2041	2041					2042	2042			N		Y
HASI	2964	FFTF reactor building	\		2041	2041					2042	2042			N		Y
HASI	2965	Fuels storage facility	\		2005	2005					2006	2006			N		Y
HASI	2969	Steam PRV Station	\		2038	2038					2039	2039			N		
HASI	2972	Geotechnical engineering lab	\		2038	2038					2039	2039			N		Y
HASI	2982	Fusion material irradiation test	\		2038	2038					2039	2039			N		
HASI	2985	Radiological physics building	\		2038	2038					2039	2039			N		
HASI	2986	Irradiation physics building	\		2038	2038					2039	2039			N		Y
HASI	2991	Positive ion accelerator facility	\		2038	2038					2039	2039			N		
HASI	2992	Electron accelerator facility	\		2038	2038					2039	2039			N		
HASI	2993	Radiological calibrations & stan	\		2037	2037					2038	2038			N		Y
HASI	2995	Paint storage building	\		2037	2037					2038	2038			N		
HASI	2998	Gamma irradiation facility	\		2037	2037					2038	2038			N		Y
HASI	3000	FFTF test article storage facility	\		2037	2037					2038	2038			N		
HASI	3002	Propane storage tanks structure	\		2037	2037					2038	2038			N		
HASI	3003	Solvent and acid storage building	\		2037	2037					2038	2038			N		

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HASI	3007	Chemistry and metal sciences lab	\		2037	2037					2038	2038			N		Y
HASI	3021	HEPA filter storage	\		2036	2036					2037	2037			N		
HASI	3022	Sodium storage	\		2036	2036					2037	2037			N		
HASI	3023	Storage building	\		2036	2036					2037	2037			N		Y
HASI	3024	Laboratory equipment central pool	\		2036	2036					2037	2037			N		
HASI	3027	Storage building	\		2036	2036					2037	2037			N		Y
HASI	3030	Organic chemistry laboratory	\		2036	2036					2037	2037			N		
HASI	3032	Storage building	\		2036	2036					2037	2037			N		Y
HASI	3035	Oil storage building	\		2035	2035					2036	2036			N	Pending	N
HASI	3038	Paint shop	\		2035	2035					2036	2036			N		
HASI	3040	Radioanalytical laboratory	\		2004	2004					2005	2005			N		Y
HASI	3046	Radiation monitoring building	\		2035	2035					2036	2036			N		Y
HASI	3047	Paint storage	\		2035	2035					2036	2036			N		
HASI	3050	Photography building	\		2035	2035					2036	2036			N		
HASI	3058	Process water trenches	\		2035	2035					2036	2036			N		
HASI	3061	Switchstation 13.8KV	\		2035	2035					2036	2036			N		
HASI	3062	Electrical switch house, 2.4KV	\		2035	2035					2036	2036			N		
HASI	3065	FMIT master substation	\		2034	2034					2035	2035			N		
HASI	3066	Substation 115KV	\		2034	2034					2035	2035			N		
HASI	3074	Electrical cable pit, No. 3	\		2034	2034					2035	2035			N		
HASI	3075	Electrical cable pit, No. 2	\		2034	2034					2035	2035			N		

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HASI	3076	Oil storage facility	\		2034	2034					2035	2035			N		
HASI	3077	Paint shop	\		2034	2034					2035	2035			N		
HASI	3079	FMIT cooling tower	\		2033	2033					2034	2034			N		
HASI	3080	Waste loadout building	\		2034	2034					2035	2035			N		Y
HASI	3081	Waste retention building	\		2033	2033					2034	2034			N		Y
HASI	3082	Waste neutralization facility	\		2033	2033					2034	2034			N		Y
HASI	3091	Waste acid storage building	\		2033	2033					2034	2034			N		
HASI	3093	Process effluent treatment facility	\		2003	2003					2004	2004			N		
HASI	3094	333 N-fuels manufacturing bldg.	\		2003	2003					2004	2004			N		Y
HASI	3104	Hoghouses	\		2031	2031					2032	2032			N		
HASI	3105	Hog barns, 331HB1 thru 331HB12	\		2031	2031					2032	2032			N		
HASI	3107	Life sciences laboratory	\		2033	2033					2034	2034			N		Y
HASI	3113	Chemical sciences laboratory	\		2032	2032					2033	2033			N		Y
HASI	3117	Post irradiation test laboratory	\		2010	2010					2012	2012			N		Y
HASI	3119	Material science laboratory	\		2032	2032					2033	2033			N		Y
HASI	3125	Maint. shop addition, part of 325	\		2031	2031					2032	2032			N		
HASI	3126	Fluorine gas storage, part of 325	\		2031	2031					2032	2032			N		
HASI	3127	Shielded lab annex, part of 325	B		2031	2031					2032	2032			N		
HASI	3128	Cesium recov. fac., part of 325	B		2031	2031					2032	2032			N		

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HASI	3129	Radiochemistry building	\		2032	2032					2033	2033					
HASI	3135	Stack sampling facility	\		2009	2009					2010	2010			N		Y
HASI	3136	Experimental lithium enclosure	\		2009	2009					2010	2010			N		
HASI	3137	Chemical engineering lab EXH	\		2008	2008					2009	2009			N		
HASI	3138	Chemical engineering building	\		2008	2008					2009	2009			N		Y
HASI	3139	Chemical engineering building	\		2008	2008					2010	2010					
HASI	3145	Mechanical properties laboratory	\		2032	2032					2033	2033			N		Y
HASI	3159	Core pump shltr, part of 321 bldg.	\		2032	2032					2033	2033			N		Y
HASI	3160	Hydro mech. seismic lab+B406	\		2032	2032					2033	2033			N		Y
HASI	3162	Physical sciences laboratory	\		2030	2030					2031	2031			N		Y
HASI	3165	HTLTR filter facility	\		2030	2030					2031	2031			N		
HASI	3166	HTLTR stack	\		2030	2030					2031	2031			N		
HASI	3167	Radiological calibration laboratory	\		2030	2030					2031	2031			N		
HASI	3169	Trench, West of 216,2 pond	\		2030	2030	6/30/1996				2031	2031			N		
HASI	3172	Backwash disposal pond	\		2030	2030					2031	2031			N		
HASI	3175	Gas bonding autoclave pit	\		2011	2011					2012	2012			N		
HASI	3176	Engineering develop. laboratory	\		2010	2010					2012	2012			N		Y
HASI	3178	313 fuels manufacturing building	\		2007	2007					2008	2008			N		Y
HASI	3182	SP-100 GES test facility	\		2005	2005					2006	2006			N		

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HASI	3183	Fuels development lab	\	Radiological Facility	2007	2007				7/31/1997	2008	2008			N		Y
HASI	3184	Fuels development laboratory	\	Radiological Facility	2007	2007				7/31/1997	2008	2008			N		Y
HASI	3187	Retention basin	\		2029	2029					2030	2030					
HASI	3190	Materials development laboratory	\		2006	2006					2007	2007				N	
HASI	3191	Development, fabrication & test L	\		2029	2029					2030	2030				N	
HASI	3194	Hazardous waste storage facility	\		2029	2029					2030	2030				N	
HASI	3195	1251 yard shed	\		2029	2029					2030	2030				N	
HASI	3196	Engineering testing facility	\		2012	2012					2013	2013				N	
HASI	3199	304-C concentration facility	\		2002	2002					2003	2003				N	
HASI	3200	Uranium concretion change room	\		2002	2002					2003	2003				N	
HASI	3201	Uranium concrete facility	\		2002	2002					2003	2003				N	
HASI	3211	Process effluent treatment facility	\		2029	2029					2030	2030				N	
HASI	3212	303M Uranium oxide facility	\		2004	2004					2005	2005				N	
HASI	3213	Waste & material storage	\		2004	2004					2005	2005				N	
HASI	3214	Storage building	\		2004	2004					2005	2005				N	
HASI	3215	Pumphouse	\		2004	2004					2005	2005				N	
HASI	3216	Storage building	\		2029	2029					2030	2030				N	
HASI	3217	Material evaluation laboratory	\		2004	2004					2005	2005				N	

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HASI	3218	Storage building	\		2004	2004					2005	2005			N		
HASI	3219	Storage building	\		2004	2004					2005	2005			N		
HASI	3223	Opacity reduction facility	\		2031	2031					2032	2032			N		
HASI	3226	Gaseous effluent release points	\		2042	2042					2043	2043			N		
HASI	3227	Stack	\		2027	2027					2028	2028			N	Pending	Y
HASI	3228	Stack	\		2027	2027				7/31/1994	2028	2028					Y
HASI	3229	Gaseous effluent release points	\		2040	2040					2041	2041			N		
HASI	3230	Gaseous effluent release points	\		2039	2039					2040	2040			N		
HASI	3231	Stacks MWTF West	\		2033	2033					2034	2034			N		
HASI	3232	West stack	\		2032	2032				7/31/1994	2033	2033			N		Y
HASI	3233	East stack	\		2032	2032				7/31/1994	2033	2033			N	Pending	Y
HASI	3234	Stack	\		2032	2032				7/31/1994	2033	2033			N	Pending	N
HASI	3235	Stack	\		2032	2032				7/31/1994	2033	2033			N	Pending	N
HASI	3237	Stack	\		2031	2031				7/31/1994	2032	2032			N	Pending	N
HASI	3238	Stack	\		2031	2031				7/31/1994	2032	2032					Y
HASI	3240	Stack	\		2031	2031				7/31/1994	2032	2032			N	Pending	Y
HASI	3241	Gaseous effluent release points	\		2033	2033					2034	2034			N		
HASI	3242	Stacks MWTF East	\		2037	2037					2038	2038			N		
HASI	3243	TGE HVAC exhaust stack	\		2037	2037					2038	2038			N		
HASI	3252	Exhaust stack	\		2022	2022					2023	2023			N		
HASI	3253	PDD monitoring building	\		2031	2031					2032	2032			N		
HASI	3254	SWL sample station	\		2031	2031					2032	2032			N		

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HASI	3255	CSL sample station	\		2031	2031					2032	2032			N		
HASI	3256	PDD sample station	\		2030	2030					2031	2031			N		
HASI	3257	SCD sample and pumpout station	\		2030	2030					2031	2031			N		
HASI	3258	Crib sampler house	\		2030	2030					2031	2031			N		
HASI	3259	ASD sample station	\		2030	2030					2031	2031			N		
HASI	3262	Offgas treatment & monitoring ST	\		2030	2030					2031	2031			N		
HASI	3265	Off gas trtmnt. & recov.	\		2031	2031				7/31/1994	2032	2032			N	Pending	Y
HASI	3266	Off-gas filter	\		2030	2030					2031	2031			N		
HASI	3267	Hydrogen peroxide storage	\		2030	2030					2031	2031			N		
HASI	3268	Offgas treatment facility	\		2030	2030					2031	2031			N		
HASI	3273	Stack monitoring station	\		2027	2027				7/31/1994	2028	2028			N	Pending	N
HASI	3274	Fission products release lab	\		2039	2039					2040	2040			N		
HASI	3275	Jet pit house	\		2031	2031				7/31/1994	2032	2032			N	Pending	Y
HASI	3276	292B stacl monitoring station	\		2022	2022					2023	2023			N		
HASI	3277	PUREX gases effl. monitor. bldg.	\		2030	2030					2031	2031			N		
HASI	3278	PR stack sample house	\		2030	2030					2031	2031			N		
HASI	3302	Main exhaust air stack (234-5Z)	\		2042	2042					2043	2043			N		
HASI	3303	Exhaust air filter stack building	\		2042	2042					2043	2043			N		
HASI	3304	Stack	\		2027	2027				7/31/1994	2028	2028			N		Y
HASI	3305	Exhaust gas fan cntrl HS.	\		2026	2026				7/31/1994	2027	2027			N	Pending	Y

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Facility Decommissioning

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HASI	3306	Exhst. fan ctrl. house & sand fltr.	\		2039	2039					2040	2040			N		
HASI	3307	Stack	\		2030	2030				7/31/1994	2031	2031			N	Pending	Y
HASI	3308	Fan house, sand filter	\		2030	2030				7/31/1994	2031	2031			N	Pending	Y
HASI	3309	B Plant filter (B-463)	\		2022	2022					2023	2023			N		
HASI	3310	Instrument service building	\		2022	2022					2023	2023			N		
HASI	3311	Instrument service building	\		2022	2022					2023	2023			N		
HASI	3312	Stack exhaust encap. structure	\		2022	2022					2023	2023			N		
HASI	3313	Air control house	\		2022	2022					2023	2023			N		
HASI	3314	Exhaust air filter cells 1 & 2	\		2022	2022					2023	2023			N		
HASI	3315	Exhaust air filter instrmnt. house	\		2022	2022					2023	2023			N		
HASI	3316	Exhaust air sample house	\		2022	2022					2023	2023			N		
HASI	3317	Exhaust air ctrl. house, sand filter	\		2022	2022					2023	2023			N		
HASI	3318	Exhaust air filter stack building	\		2030	2030					2031	2031			N		
HASI	3319	Tunnel spray encl. & caisson	\		2029	2029					2030	2030			N		
HASI	3320	Sample station #3	\		2029	2029					2030	2030			N		
HASI	3321	AOG sample station	\		2029	2029					2030	2030			N		
HASI	3322	Sample station #2	\		2029	2029					2030	2030			N		
HASI	3323	Filter cell #4	\		2029	2029					2030	2030			N		
HASI	3324	Filter pit and stack	\		2029	2029					2030	2030			N		
HASI	3325	Exhaust air sampler house	\		2029	2029					2030	2030			N		
HASI	3326	Exhaust air sampler house	\		2029	2029					2030	2030			N		

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HASI	3327	Filter cell #3	\		2029	2029					2030	2030				N	
HASI	3329	Wells & pump houses general	\		2037	2037					2038	2038				N	
HASI	3332	Monitoring building	\		2042	2042					2043	2043				N	
HASI	3333	Cooling water sampler	\		2030	2030				7/31/1994	2031	2031			N	Pending	N
HASI	3334	Wier control structure	\		2033	2033					2034	2034				N	
HASI	3335	Wier control structure	\		2033	2033					2034	2034				N	
HASI	3336	Wier structure	\		2033	2033					2034	2034				N	
HASI	3337	Control structure	\		2033	2033					2034	2034				N	
HASI	3338	Chem. sewer sampling bldg. no.	\		2029	2029					2030	2030				N	
HASI	3339	Sewer sampler building	\		2029	2029					2030	2030				N	
HASI	3342	Backflow prevention building	\		2037	2037					2038	2038				N	
HASI	3347	284W powerhouse	\		2037	2037					2038	2038				N	
HASI	3348	284E powerhouse	\		2037	2037					2038	2038				N	
HASI	3364	Backup generator facility	\		2029	2029					2030	2030				N	
HASI	3371	Solvent recovery	\		2026	2026				7/31/1994	2027	2027			N	Pending	Y
HASI	3372	Hexone storage tank	\		2030	2030				7/31/1994	2031	2031			N	Pending	Y
HASI	3373	Hexone storage tank	\		2029	2029				7/31/1994	2030	2030			N	Pending	Y
HASI	3374	Solvent handling	\		2029	2029				7/31/1994	2030	2030			N	Pending	Y
HASI	3375	Industrial facility	\		2016	2016				7/31/1994	2017	2017			N		Y
HASI	3376	276-B cold solvent storage bldg.	\		2021	2021					2022	2022				N	
HASI	3377	Cold solvent storage building, R C	\		2028	2028					2029	2029				N	

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HASI	3385	Chem storage warehouse	\		2026	2026				12/31/1997	2027	2027			N		N
HASI	3396	Cargo restraint transport dock	\		2042	2042					2043	2043			N		
HASI	3397	Plutonium storage support fac.	\		2042	2042					2043	2043			N		
HASI	3398	Plutonium storage building	\		2042	2042					2043	2043			N		
HASI	3400	Chemical storage	\		2042	2042					2043	2043			N		
HASI	3413	Liquid nitrogen storage tank	\		2042	2042					2043	2043			N		
HASI	3414	Gas storage	\		2042	2042					2043	2043			N		
HASI	3434	Sodium storage building	\		2040	2040					2041	2041			N	Pending	
HASI	3435	Sodium storage building	\		2040	2040					2041	2041			N	Pending	
HASI	3453	Laundry facility	\		2037	2037					2038	2038			N		
HASI	3454	Radiation monitoring & protection	\		2039	2039					2040	2040			N		
HASI	3455	Radiation monitoring & protection	\		2039	2039					2040	2040			N		
HASI	3456	Radiation monitoring & protection	\		2039	2039					2040	2040			N		
HASI	3457	Radiation monitoring & protection	\		2032	2032					2033	2033			N		
HASI	3458	Radiation monitoring & protection	\		2032	2032					2033	2033			N		
HASI	3459	Radiation monitoring & protection	\		2034	2034					2035	2035			N		
HASI	3460	Rad monitoring & protective clos.	\		2021	2021					2022	2022			N		

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HASI	3461	Rad monitoring & protective clos.	\		2021	2021					2022	2022			N		
HASI	3463	Mask laundry and office bldg.	\		2037	2037					2038	2038			N		
HASI	3466	Truck loadout station	\		2041	2041					2042	2042			N		
HASI	3467	Welding laboratory building	\		2037	2037					2038	2038			N		
HASI	3471	Plastic fabrication shop	\		2041	2041					2042	2042			N		
HASI	3472	Hot/cold shop	\	Other Industrial Facility	2025	2025				7/31/1994	2026	2026			N		Y
HASI	3481	Office machine storage	\		2037	2037					2038	2038			N		
HASI	3483	Sand filter sampler	\		2029	2029				7/31/1994	2030	2030			N	Pending	Y
HASI	3485	Critical mass fissile storage	\		2036	2036					2037	2037			N		
HASI	3486	Laboratory chemical storage	\		2032	2032					2033	2033			N		
HASI	3490	Fire protection shed	\	Other Industrial Facility	2025	2025				3/31/1996	2026	2026			N		Y
HASI	3491	RM checkout station, near tunnell	\		2021	2021					2022	2022			N		
HASI	3501	Insulator shp/adj. wste shed	\	Other Industrial Facility	2025	2025				3/31/1996	2026	2026			N		Y
HASI	3502	Oil storage shed	\	Other Industrial Facility	2025	2025				3/31/1996	2026	2026			N		Y
HASI	3503	Oil storage bldg.	\		2029	2029				7/31/1994	2030	2030			N	Pending	N
HASI	3504	Paint storage building	\		2036	2036					2037	2037			N		
HASI	3505	Paint storage facility	\		2036	2036					2037	2037			N		
HASI	3506	Paint shop	\		2036	2036					2037	2037			N		

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HASI	3507	Drum storage shed	\		2028	2028					2029	2029				N	
HASI	3508	Storage building	\		2036	2036					2037	2037				N	
HASI	3509	Paint storage building	\		2021	2021					2022	2022				N	
HASI	3513	Sludge vault general strge bldg.	\		2028	2028					2029	2029				N	
HASI	3514	Dry chemical warehouse	\		2028	2028					2029	2029				N	
HASI	3519	Regulated garage & heavy equip.	\		2036	2036					2037	2037				N	
HASI	3520	Garage	\		2036	2036					2037	2037				N	
HASI	3524	Stack monitoring station	\		2041	2041					2042	2042				N	
HASI	3525	Electrical instrumentation building	\		2039	2039					2040	2040				N	Pending
HASI	3526	Electrical instrumentation building	\		2021	2021					2022	2022				N	Pending
HASI	3532	STK gas monitor	\		2028	2028				7/31/1994	2029	2029				N	Pending Y
HASI	3533	2E garage	\		2036	2036					2037	2037				N	
HASI	3534	Air compressor building	\		2028	2028					2029	2029				N	
HASI	3538	Inert gas preparation bldg.	\		2028	2028				7/31/1994	2029	2029				N	N
HASI	3539	Office	\		2024	2024				7/31/1994	2025	2025				N	Pending Y
HASI	3540	Service & office bldg.	\		2034	2034					2035	2035				N	
HASI	3541	Laundry storage bldg. N. of 271	\		2021	2021					2022	2022				N	
HASI	3542	PUREX maint. support facility	\		2028	2028					2029	2029				N	
HASI	3543	Instrument bldg.	\		2028	2028					2029	2029				N	
HASI	3546	Laggers shop	\		2028	2028				7/31/1994	2029	2029				N	

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HASI	3552	Equipment decontam.	\		2038	2038					2039	2039			N		
HASI	3553	Storage building	\		2028	2028				7/31/1994	2029	2029			N		Y
HASI	3570	Condens neutral tank	\		2025	2025					2026	2026			N	Pending	
HASI	3572	Hazardous materials storage	\		2032	2032					2033	2033			N		
HASI	3574	Control house	\		2021	2021					2022	2022			N		
HASI	3579	Electrical switching station	\		2041	2041					2042	2042			N		
HASI	3580	Electrical switching station, struc.	\		2036	2036					2037	2037			N		
HASI	3581	Laboratory electrical switch sta.	\		2028	2028					2029	2029			N		
HASI	3582	Substation 13.8 KV	\		2021	2021					2022	2022			N		
HASI	3583	Electrical switching station 13.8 K	\		2028	2028					2029	2029			N		
HASI	3606	Hazardous waste storage bldg. 2	\		2039	2039					2040	2040			N		
HASI	3607	Hazardous waste storage bldg. 2	\		2039	2039					2040	2040			N		
HASI	3608	Salt well receiver	\		2038	2038					2039	2039			N		
HASI	3609	Instrument control house	\		2032	2032					2033	2033			N		
HASI	3610	Waste lift station (vault)	\		2032	2032					2033	2033			N		
HASI	3611	Waste displ. vault, underground	\ 2		2034	2034					2035	2035			N		
HASI	3612	Salt well receiver vault	\		2021	2021					2022	2022			N		
HASI	3613	Salt well receiver vault	\		2028	2028					2029	2029			N		
HASI	3614	500 KW standby generator encl.	\		2028	2028					2029	2029			N		
HASI	3615	Diversion box no. 2 waste	\		2027	2027					2028	2028			N		

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HASI	3666	242-B evaporator facility	\		2021	2021					2022	2022					
HASI	3667	LERF storage building	\		2027	2027					2028	2028				N	
HASI	3668	Turbine building	\		2027	2027					2028	2028				N	
HASI	3669	Nitric acid unloading station	\		2027	2027					2028	2028				N	
HASI	3671	242A evaporator	\		2027	2027					2028	2028				N	
HASI	3758	Open area slab struc., uranium S	\		2041	2041					2042	2042				N	
HASI	3759	Sump control & filter building	\		2041	2041					2042	2042				N	
HASI	3760	Sump confinement building	\		2041	2041					2042	2042				N	
HASI	3761	Sump vent enclosure	\		2041	2041					2042	2042				N	
HASI	3762	Sampling building	\		2040	2040					2041	2041				N	
HASI	3763	Vault (thorium storage)	\		2024	2024				7/31/1994	2025	2025				Pending	Y
HASI	3764	Waste metal recovery facil., U	\		2039	2039					2040	2040				N	
HASI	3765	Waste metal recovery facil., TX	\		2038	2038					2039	2039				N	
HASI	3766	Intermediate pump station	\		2038	2038					2039	2039				N	
HASI	3767	Chemical make up building	\		2038	2038					2039	2039				N	
HASI	3768	Waste disposal condenser house	\		2032	2032					2033	2033				N	
HASI	3769	Waste disp cond HS	\		2027	2027				7/31/1994	2028	2028					Y
HASI	3770	Waste disp cond HS	\		2027	2027				7/31/1994	2028	2028				N	Y
HASI	3771	CX-72 tank & green house	\	Radiological Facility	2016	2016				7/31/1994	2017	2017					Y
HASI	3772	Tank	\	Radiological Facility	2016	2016				7/31/1994	2017	2017					Y
HASI	3773	Tank	\	Radiological	2016	2016				7/31/1994	2017	2017					Y

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					Facility	Facility	Facility	Facility	Facility	Facility	Facility	Facility	Facility	Facility	Facility	Facility	Facility	Facility	Facility	Facility	Facility	Facility	Facility				
HASI	3774	Waste disposal	\			2034		2034										2035		2035					N		
HASI	3775	Wst. disposal control house, 241C	\			2034		2034										2035		2035					N		
HASI	3776	Metal recovery facilities	\			2033		2033										2034		2034					N		
HASI	3777	Metal recovery facilities	\			2033		2033										2034		2034					N		
HASI	3778	Metal recovery facilities	\			2033		2033										2034		2034					N		
HASI	3779	Metal recovery facilities	\			2033		2033										2034		2034					N		
HASI	3780	Air compressor facility	\			2033		2033										2034		2034					N		
HASI	3781	Organic waste incinerator	\			2033		2033										2034		2034					N		
HASI	3782	Cesium loadout	\			2017		2017									7/31/1994		2018		2018				N	Pending	Y
HASI	3783	Compressor house, ITS1	\			2020		2020										2021		2021					N		
HASI	3784	Control house in tank solidification	\			2020		2020										2021		2021					N		
HASI	3785	Control house & compressor, ITS2	\			2020		2020										2021		2021					N		
HASI	3786	Wst. mat'l. recovery fac., divers	\			2020		2020										2021		2021					N		
HASI	3787	Waste metal recovery facilities B F	\			2020		2020										2021		2021					N		
HASI	3788	EP bldg. annex	\			2027		2027										2028		2028					N		
HASI	3789	EP bldg.	\			2027		2027										2028		2028					N		
HASI	3790	Vent recirculation equipment vault	\			2027		2027										2028		2028					N		
HASI	3791	Vent recirculation equipment	\			2026		2026										2027		2027					N		

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vault																	
HASI	3792		Condensate pump pit	\		2026	2026					2027	2027				N
HASI	3793		Condensate valve pit	\		2026	2026					2027	2027				N
HASI	3794		Condensate valve pit	\		2026	2026					2027	2027				N
HASI	3795		Vent recirculation equipment vault	\		2026	2026					2027	2027				N
HASI	3796		Vent recirculation equipment vault	\		2026	2026					2027	2027				N
HASI	3797		Sluice transfer boxes	\		2026	2026					2027	2027				N
HASI	3798		Pump out pits	\		2026	2026					2027	2027				N
HASI	3799		Condensate valve pit	\		2026	2026					2027	2027				N
HASI	3800		Compressor building	\		2026	2026					2027	2027				N
HASI	3801		Ventilation building	\		2025	2025					2026	2026				N
HASI	3802		Cooling towers	\		2025	2025					2026	2026				N
HASI	3803		Cooling towers	\		2025	2025					2026	2026				N
HASI	3804		Airlift circulator control building	\		2025	2025					2026	2026				N
HASI	3805		Water treatment and pump house	\		2025	2025					2026	2026				N
HASI	3806		Instrument building	\		2025	2025					2026	2026				N
HASI	3807		Sampling facility	\		2025	2025					2026	2026				N
HASI	3808		Valve pit	\		2025	2025					2026	2026				N
HASI	3809		Flush pit	\		2025	2025					2026	2026				N

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HASI	3810	Leak detection pit	\		2025	2025					2026	2026			N		
HASI	3811	Diversion box	\		2025	2025					2026	2026			N		
HASI	3812	AP farm samples building	\		2025	2025					2026	2026			N		
HASI	3813	Compressor building	\		2024	2024					2025	2025			N		
HASI	3814	Instrument control house	\		2024	2024					2025	2025			N		
HASI	3815	Tank farm vent.	\		2025	2025				7/31/1994	2026	2026			N	Pending	Y
HASI	3819	DMRHF dry blended strge/truck LO	\		2035	2035					2036	2036			N		
HASI	3821	DMF transfer pump pit	\		2035	2035					2036	2036			N		
HASI	3822	DMF attapulgite clay silo	\		2035	2035					2036	2036			N		
HASI	3823	DMF pottery clay silo	\		2035	2035					2036	2036			N		
HASI	3824	DMF fly ash silo	\		2035	2035					2036	2036			N		
HASI	3825	DMF cement silo	\		2020	2020					2021	2021			N		
HASI	3827	Plutonium processing plant	\		2024	2024					2025	2025			N		
HASI	3830	Plutonium reclamation bldg.	\		2040	2040					2041	2041			N		
HASI	3833	Z-Plant PU finishing	\		2040	2040					2041	2041			N		
HASI	3834	Waste drum storage	\		2040	2040					2041	2041			N		
HASI	3837	234-5Z plutonium finishing plant	\		2040	2040					2041	2041			N		
HASI	3840	Exhaust filter	\		2027	2027				7/31/1994	2028	2028			N	Pending	Y
HASI	3841	Plutonium conc.	\	Nuclear Facility, Category 2	2004	2004				7/31/1994	2005	2005			N	Pending	Y

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HASI	3847	Pu metallurgy engineering lab	\		2040	2040					2041	2041				N	
HASI	3851	Organic waste recovery bldg.	\		2020	2020					2021	2021				N	
HASI	3853	Hot yard shed	\		2020	2020					2021	2021				N	
HASI	3865	Encapsulation repair shop	\		2020	2020					2021	2021				N	
HASI	3866	Encapsul. waste mon/sample bldg.	\		2020	2020					2021	2021				N	
HASI	3867	K3 filter pit encapsulation facility	\		2020	2020					2021	2021				N	
HASI	3868	K1 filter pit encapsulation facility	\		2020	2020					2021	2021				N	
HASI	3869	Waste encapsul. & storage facility	\		2019	2019					2020	2020				N	
HASI	3876	Paint shop	\		2019	2019					2020	2020				N	
HASI	3878	UO3 calcintn. bldg	\	Other Industrial Facility	2024	2024					3/31/1996	2025	2025			N	Y
HASI	3879	UO3 plant conc. bldg.	\	Other Industrial Facility	2023	2023					3/31/1996	2024	2024			N	Y
HASI	3880	Concentration	\	Nuclear Facility, Category 3	2025	2025					7/31/1994	2026	2026			N	Y
HASI	3885	Laboratory - Office building	\		2039	2039					2040	2040				N	
HASI	3886	Laboratory - Office building	\		2038	2038					2039	2039				N	
HASI	3887	Equipment storage	\		2032	2032					2033	2033				N	
HASI	3888	Solid waste storage bldg.	\		2032	2032					2033	2033				N	
HASI	3889	North filter building	\		2032	2032					2033	2033				N	

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HASI	3890	South filter building	\		2032	2032					2033	2033				N		
HASI	3891	Standards/process dev laboratory	\		2031	2031					2032	2032				N		
HASI	3892	Central analytical laboratory	\		2031	2031					2032	2032				N		
HASI	3903	Process canyon	\	Nuclear Facility, Category 3	2026	2026				7/31/1994	2027	2027				N	Pending	Y
HASI	3904	T Plant canyon laundry storage	\		2038	2038					2039	2039				N		
HASI	3905	Vent fan house	\		2038	2038					2039	2039				N		
HASI	3906	221T Plant	\		2037	2037					2038	2038				N		
HASI	3907	Process condensate facility	\		2019	2019					2020	2020				N		
HASI	3908	BCP pump pit	\		2019	2019					2020	2020				N		
HASI	3909	Canyon crane maint. facility	\		2019	2019					2020	2020				N		
HASI	3910	B Plant cooling wtr. sampl. encl.	\		2019	2019					2020	2020				N		
HASI	3911	Condensate effl. discharge fac.	\		2019	2019					2020	2020				N	Pending	
HASI	3912	Fork lift storage bldg.	\		2019	2019					2020	2020				N		
HASI	3913	Laundry storage bldg.	\		2019	2019					2020	2020				N		
HASI	3914	SWP change house	\		2019	2019					2020	2020				N		
HASI	3915	Process steam/condensate bldg.	\		2019	2019					2020	2020				N		
HASI	3916	Sewer monitoring station	\		2019	2019					2020	2020				N		
HASI	3917	BCE neutralization system bldg.	\		2018	2018					2019	2019				N		
HASI	3918	221-B Plant (WESF)	\		2018	2018					2019	2019				N		
HASI	3924	Rad waste staging & transfer	\		2031	2031					2032	2032				N		

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HASI	3925	Hazardous waste emerg. equip.	\		2018	2018					2019	2019			N		
HASI	3927	Vault, behind 222B, inactive	\		2018	2018					2019	2019			N		
HASI	3928	Grout disposal vault #1	\		2035	2035					2036	2036			N		
HASI	3929	Grout disposal facilities	\		2035	2035					2036	2036			N		
HASI	3930	Failed equipment disposal tunnel	\		2024	2024					2025	2025			N		
HASI	3931	Failed equipment disposal tunnel	\		2024	2024					2025	2025			N		
HASI	3934	Water treatment building	\		2018	2018					2019	2019			N		
HASI	3939	Contaminated soild removal fac.	\		2040	2040					2041	2041			N		
HASI	3940	Z-9 mining facility	\		2040	2040					2041	2041			N		
HASI	3941	PUREX cooling wtr line flow meter	\		2024	2024					2025	2025			N		
HASI	3942	Contingency pond control struct.	\		2024	2024					2025	2025			N		
HASI	3943	Process condensate sampl. fac.	\		2024	2024					2025	2025			N		
HASI	3944	Crib control structure	\		2024	2024					2025	2025			N		
HASI	3945	Crib control structure	\		2024	2024					2025	2025			N		
HASI	3946	216A29 ditch control structure	\		2024	2024					2025	2025			N		
HASI	3947	Valve control house	\		2023	2023					2024	2024			N		
HASI	3948	Valve control facility	\		2023	2023					2024	2024			N		
HASI	3950	Gas prep facility	\		2017	2017			7/31/1994	2018	2018			N		Y	
HASI	3952	Chemical storage bldg.	\		2037	2037					2038	2038			N		
HASI	3953	PUREX warehouse	\		2023	2023					2024	2024			N		

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HASI	3958	Oxygen gas dock	\		2031	2031					2032	2032			N		
HASI	3959	Fission product load in station	\		2023	2023					2024	2024			N		
HASI	3964	Gas storage dock	\		2031	2031					2032	2032			N		
HASI	3965	Storage	\		2022	2022				7/31/1994	2023	2023					Y
HASI	3966	Storage	\	Nuclear Facility, Category 3	2022	2022					2023	2023					Y
HASI	3967	Storage	\		2022	2022				7/31/1994	2023	2023					Y
HASI	3968	Fission product load out station	\		2018	2018					2019	2019			N		
HASI	3969	Fission product load out station	\		2023	2023					2024	2024			N		
HASI	3974	Tank farm	\		2023	2023				3/31/1996	2024	2024			N		Y
HASI	3975	Tank farm	\		2023	2023				3/31/1996	2024	2024			N		Y
HASI	3976	Bulk stor. aqueous makeup tanks	\		2027	2027				7/31/1994	2028	2028			N		Y
HASI	3977	Divertor station	\		2018	2018					2019	2019			N		
HASI	3978	BCE sump/pump station	\		2018	2018					2019	2019			N		
HASI	3979	BCE diversion/pump station	\		2018	2018					2019	2019			N		
HASI	3980	BCE neutralization	\		2018	2018					2019	2019			N		
HASI	3981	Chem makeup tnk frm, pmp house	\		2023	2023					2024	2024			N		
HASI	3983	Hazardous waste mat'l. accum.	\		2034	2034					2035	2035			N		
HASI	3984	Material management pad	\		2034	2034					2035	2035			N		
HASI	3987	Animal control oper. pesticide	\		2034	2034					2035	2035			N		

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HASI	3988	Oil drum storage, PUREX	\		2023	2023					2024	2024			N		
HASI	3991	209-E critical mass laboratory	\		2034	2034					2035	2035			N		
HASI	3992	Waste managmnt equip. test fac.	\		2034	2034					2035	2035			N		
HASI	3995	Sample shack	\		2023	2023				3/31/1996	2024	2024					Y
HASI	3996	Retention basin	\	Other Industrial Facility	2022	2022				7/31/1994	2023	2023			N		Y
HASI	3997	Water retention basin	\		2031	2031					2032	2032			N		
HASI	3998	207-S water retention basin	\		2027	2027				7/31/1994	2028	2028			N		N
HASI	3999	207BA sampling bldg.	\		2018	2018					2019	2019			N		
HASI	4001	Vacuum acid fractionator bldg.	\		2023	2023					2024	2024			N		
HASI	4003	Silica gel facility	\		2025	2025				7/31/1994	2026	2026			N	Pending	Y
HASI	4006	Railcar unloading facility	\		2023	2023					2024	2024			N		
HASI	4007	Acid stor. vault, U cell below GR	\		2023	2023					2024	2024			N		
HASI	4009	Concntrted. uranium tnk encl.	\	Other Industrial Facility	2022	2022				3/31/1996	2023	2023			N		Y
HASI	4010	Tank farms	\	Other Industrial Facility	2022	2022				3/31/1996	2023	2023			N		Y
HASI	4011	Acid pump house	\		2023	2023					2024	2024			N		
HASI	4014	Canyon building (REDOX) (C)	\	Nuclear Facility, Category 2	2031	2031					2032	2032			N		
HASI	4015	Redox	\	Nuclear Facility, Category 3	2032	2032				7/31/1994	2033	2033					Y

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HASI	4016	202-A PUREX processing bldg.	\		2023	2023					2024	2024			N		
HASI	4030	Vertical safety rod test tower	\		2004	2004					2005	2005					
HASI	4033	Effluent valve pit	\		2014	2014					2015	2015			N		
HASI	4034	Effluent valve pit	\		2003	2003					2004	2004			N		
HASI	4035	Effluent water monitoring station	\		2014	2014					2015	2015			N		
HASI	4036	189-D water treatment bldg.	\		2004	2004					2005	2005			N	Pending	
HASI	4037	185-D wtr. trtmnt./develop. lab	\		2003	2003					2004	2004			N		
HASI	4040	Filter plant head house, chlorine	\		2014	2014					2015	2015			N		
HASI	4043	Lime feeder building	\		2013	2013					2014	2014			N		
HASI	4044	Lime feeder building	\		2013	2013					2014	2014			N		
HASI	4046	Lime feeder building	\		2013	2013					2014	2014			N		
HASI	4047	Lime feeder building	\		2012	2012					2013	2013			N		
HASI	4052	Headhouse/chlorine	\		2012	2012					2013	2013			N		
HASI	4054	Headhouse/chlorine	\		2012	2012					2013	2013			N		
HASI	4071	Sodium storage tank enclosure	\		2003	2003					2004	2004			N		
HASI	4072	Self service gasoline station	\		2014	2014					2015	2015			N		
HASI	4074	Oil and paint storage shed	\		2011	2011					2012	2012			N		
HASI	4075	Solvent storage - abandoned	\		2002	2002					2003	2003			N		
HASI	4076	Water studies recirc. bldg.	\		2011	2011					2012	2012			N		
HASI	4077	Development laboratory	\		2011	2011					2012	2012			N		
HASI	4078	1706KE wtr. studies semiworks	\		2010	2010					2011	2011			N	Pending	

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HASI	4079	Effluent water trtmnt. pilot plan \			2010	2010					2011	2011			N			
HASI	4080	KW power control bldg.	\		2010	2010					2011	2011			N			
HASI	4081	Demin. water plant/waste pad	\		2013	2013					2014	2014			N	Pending		
HASI	4083	Environ. monitoring station	\		2009	2009					2010	2010			N			
HASI	4085	Wste. water pumphouse	\		2002	2002					2003	2003			N			
HASI	4086	Wste. water pumphouse, lift sta.	\		2002	2002					2003	2003			N			
HASI	4087	Wste. water pumphouse, lift sta.	\		2002	2002					2003	2003			N			
HASI	4088	Gas bottle storage	\		2012	2012					2013	2013			N	Pending		
HASI	4089	Laydown storage area	\		2011	2011					2012	2012			N	Pending		
HASI	4090	Hazardous waste pad	\		2010	2010					2011	2011			N	Pending		
HASI	4092	Fixed metal paint shop	\		2009	2009					2010	2010			N	Pending		
HASI	4093	KW powerstation 230 KV	\		2009	2009					2010	2010			N			
HASI	4094	Primary substation switch house	\		2002	2002					2003	2003			N			
HASI	4097	Export valve house	\		2008	2008					2009	2009			N	Pending		
HASI	4098	Effluent water pilot annes	\		2007	2007					2008	2008			N			
HASI	4099	Rupture waste process. facility	\		2006	2006					2007	2007			N			
HASI	4100	Rupture waste process. pump pit	\		2005	2005					2006	2006			N			
HASI	4101	Liquid waste pump pit	\		2004	2004					2005	2005						
HASI	4102	Liquid waste	\		2003	2003					2004	2004						
HASI	4104	119-KE exhst. air sampling bldg.	\		2009	2009					2010	2010			N	Pending		
HASI	4139	Valve pit	Miscellaneous\Other	Other Industrial Facility	2013	2013					7/31/1994	2014	2014					

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HASI	4140	Sewage lift station #3	Miscellaneous\Other		2013	2013				7/31/1994	2014	2014			N	Pending	N
HASI	4141	Sewage lift station #2	Miscellaneous\Other		2013	2013				7/31/1994	2014	2014			N		N
HASI	4142	Sewage lift station #1	Miscellaneous\Other		2013	2013				7/31/1994	2014	2014			N		N
HASI	4143	Export water tie-in bldg.	Buildings & Equipment\Other Buildings		2012	2012				7/31/1994	2013	2013			N		Y
HASI	4144	Water supply tanks	Tanks\Above Ground Storage Tanks	Other Industrial Facility	2012	2012				7/31/1994	2013	2013			N		Y
HASI	4145	Process water pumphouse	Buildings & Equipment\Other Buildings		2014	2014				7/31/1994	2015	2015			N		N
HASI	4146	Main pump house	Buildings & Equipment\Other Buildings		2004	2004				7/31/1994	2005	2005			N	Pending	N
HASI	4147	Complex	Buildings & Equipment\Other Buildings							7/31/1994			9/30/1995		N	Pending	Y
HASI	4148	Main pump house	Buildings & Equipment\Other Buildings							7/31/1994			8/28/1997		N		Y
HASI	4149	HGP T/G bldg.	Buildings & Equipment\Other Buildings		2012	2012				2013	2013				N		Y
HASI	4150	Chemical injection house	Buildings & Equipment\Other Buildings	Other Industrial Facility	2012	2012				7/31/1994	2013	2013			N		N
HASI	4151	Compressor shed	Buildings & Equipment\Other	Other Industrial Facility	2012	2012				7/31/1994	2013	2013			N	Pending	N

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Buildings																	
HASI	4152	F/O day tanks	Tanks\Above Ground Storage Tanks	Other Industrial Facility						7/31/1994			9/30/1996		N		N
HASI	4153	Air handler annex	Buildings & Equipment\Other Buildings	Other Industrial Facility	2012	2012				7/31/1994	2013	2013			N	Pending	N
HASI	4154	Pwr. annex (CE boilers)	Buildings & Equipment\Other Buildings	Other Industrial Facility	2011	2011				7/31/1994	2012	2012			N	Pending	Y
HASI	4155	Clear well	Buildings & Equipment\Other Buildings		2011	2011				7/31/1994	2012	2012			N	Pending	N
HASI	4156	Pumphouse	Buildings & Equipment\Other Buildings		2011	2011				7/31/1994	2012	2012			N	Pending	N
HASI	4157	Wtr. fltr. plant	Buildings & Equipment\Other Buildings		2011	2011				7/31/1994	2012	2012			N	Pending	N
HASI	4158	Filter plant	Buildings & Equipment\Other Buildings		2014	2014				7/31/1994	2015	2015			N		N
HASI	4159	Pipe tunnels	Buildings & Equipment\Other Buildings		2014	2014				7/31/1994	2015	2015			N		N
HASI	4160	West clearwell	Buildings & Equipment\Other Buildings		2003	2003				7/31/1994	2004	2004			N		Y
HASI	4161	West Clearwell	Buildings & Equipment\Other		2003	2003				7/31/1994	2004	2004			N		N

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Buildings																	
HASI	4162	Filter plant	Buildings & Equipment\Other Buildings							7/31/1994			9/30/1996		N		N
HASI	4163	Hi-lift pumphouse	Buildings & Equipment\Other Buildings	Other Industrial Facility	2010	2010				7/31/1994	2011	2011			N	Pending	Y
HASI	4164	Emer. WTR/pumphouse	Buildings & Equipment\Other Buildings		2014	2014				7/31/1994	2015	2015			N		N
HASI	4165	HGP river pumphouse	Buildings & Equipment\Other Buildings		2010	2010				2011	2011				N		N
HASI	4166	Sample sta. skid	Buildings & Equipment\Other Buildings	Other Industrial Facility	2010	2010				7/31/1994	2011	2011			N	Pending	N
HASI	4167	Dsl. pumphouse	Buildings & Equipment\Other Buildings	Other Industrial Facility	2010	2010				7/31/1994	2011	2011			N	Pending	N
HASI	4168	Rvr. water pumphouse	Buildings & Equipment\Other Buildings	Other Industrial Facility	2010	2010				7/31/1994	2011	2011			N	Pending	N
HASI	4169	River pumphouse	Buildings & Equipment\Other Buildings		2014	2014				7/31/1994	2015	2015			N		N
HASI	4170	Pipe trestle	Miscellaneous\Other		2009	2009				2010	2010				N		Y
HASI	4171	Pipe trestle	Miscellaneous\Other	Other Industrial Facility	2009	2009				7/31/1994	2010	2010			N		Y

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HASI	4172	Laydown storage yard	Above Ground Material / Waste\Storage Yards and Pads		2009	2009				7/31/1994	2010	2010			N		Y
HASI	4173	Decon hot shop	Buildings & Equipment\Other Buildings	Other Industrial Facility	2014	2014				7/31/1994	2015	2015			N		Y
HASI	4174	Arsenal	Buildings & Equipment\Other Buildings		2003	2003				7/31/1994	2004	2004			N	Pending	N
HASI	4175	Oil tanks	Tanks\Above Ground Storage Tanks	Other Industrial Facility	2009	2009				7/31/1994	2010	2010			N		Y
HASI	4176	Solvent house	Buildings & Equipment\Other Buildings				10/25/1996			7/31/1994			6/30/1997		N	Pending	N
HASI	4177	Insulation shop	Buildings & Equipment\Other Buildings	Other Industrial Facility	2008	2008				7/31/1994	2009	2009			N		N
HASI	4178	Boat house	Buildings & Equipment\Other Buildings		2008	2008					2009	2009			N	Pending	N
HASI	4179	Sewer lift station	Miscellaneous\Other		2008	2008				7/31/1994	2009	2009			N	Pending	N
HASI	4180	Storage bldg./main	Buildings & Equipment\Other Buildings		2008	2008				7/31/1994	2009	2009			N	Pending	Y
HASI	4181	Maint. shop annex	Buildings & Equipment\Other Buildings		2008	2008				7/31/1994	2009	2009			N	Pending	N
HASI	4182	Inst./elect. facility	Buildings & Equipment\Other		2007	2007				7/31/1994	2008	2008			N	Pending	N

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Buildings																	
HASI	4183	Crosstie tnnl. bldg.	Buildings & Equipment\Other Buildings		2013	2013				7/31/1994	2014	2014			N	Pending	N
HASI	4184	F/oil pmphouse	Tanks\Above Ground Storage Tanks	Other Industrial Facility	2007	2007				7/31/1994	2008	2008			N	Pending	Y
HASI	4185	Oil storage vault	Buildings & Equipment\Other Buildings		2013	2013				7/31/1994	2014	2014			N	Pending	N
HASI	4186	Oil storage facility	Buildings & Equipment\Other Buildings		2012	2012				7/31/1994	2013	2013			N	Pending	N
HASI	4187	Oil storage facility	Buildings & Equipment\Other Buildings		2012	2012					2013	2013			N	Pending	N
HASI	4188	Pwr. cntl. bldg.	Buildings & Equipment\Other Buildings		2012	2012				7/31/1994	2013	2013			N	Pending	N
HASI	4189	Demin. plant	Buildings & Equipment\Other Buildings	Other Industrial Facility	2007	2007				7/31/1994	2008	2008			N	Pending	N
HASI	4190	Vacuum seal house	Buildings & Equipment\Other Buildings		2002	2002				7/31/1994	2003	2003			N	Pending	Y
HASI	4191	BPA switch yard	Miscellaneous\Other		2006	2006					2007	2007			N		N
HASI	4192	Switchgear bldg.	Buildings & Equipment\Other	Other Industrial Facility	2006	2006				7/31/1994	2007	2007			N	Pending	N

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HASI	4193	250kv sub sta.	Buildings & Equipment\Other Buildings	Other Industrial Facility	2006	2006				7/31/1994	2007	2007			N	Pending	N
HASI	4194	Heat recovery station	Buildings & Equipment\Other Buildings		2012	2012				7/31/1994	2013	2013			N		N
HASI	4195	Heat recovery station	Buildings & Equipment\Other Buildings		2012	2012				7/31/1994	2013	2013			N		N
HASI	4196	Waste storage facility	Buildings & Equipment\Other Buildings		2006	2006				7/31/1994	2007	2007			N	Pending	Y
HASI	4197	Diversion vlive. house	Buildings & Equipment\Other Buildings		2006	2006				7/31/1994	2007	2007			N		Y
HASI	4198	Turbine meter vault	Buildings & Equipment\Other Buildings	Other Industrial Facility	2006	2006				7/31/1994	2007	2007			N	Pending	Y
HASI	4199	Crib eff. iodine monitor	Buildings & Equipment\Other Buildings	Other Industrial Facility	2005	2005				7/31/1994	2006	2006			N	Pending	Y
HASI	4200	Eff. water pilot plant	Buildings & Equipment\Other Buildings	Other Industrial Facility	2005	2005				7/31/1994	2006	2006			N	Pending	Y
HASI	4201	Waste trtmnt. pilot	Buildings & Equipment\Other Buildings	Other Industrial Facility	2013	2013				7/31/1994	2014	2014			N	Pending	Y
HASI	4202	Turb. meter vault	Miscellaneous\Other	Other Industrial Facility	2005	2005				7/31/1994	2006	2006			N	Pending	Y

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HASI	4203	Crib eff 1 mon.	Miscellaneous\Other	Other Industrial Facility	2005	2005				7/31/1994	2006	2006			N	Pending	Y
HASI	4204	Valve vault	Buildings & Equipment\Other Buildings	Other Industrial Facility	2005	2005				7/31/1994	2006	2006			N	Pending	Y
HASI	4205	Valve house	Buildings & Equipment\Other Buildings	Other Industrial Facility	2005	2005				7/31/1994	2006	2006			N	Pending	Y
HASI	4206	Diversion syst.	Buildings & Equipment\Other Buildings	Other Industrial Facility	2005	2005				7/31/1994	2006	2006			N	Pending	Y
HASI	4207	Liquid station loadout	Buildings & Equipment\Other Buildings	Radiological Facility	2014	2014				7/31/1994	2015	2015			N	Pending	Y
HASI	4208	Chnge/control bldg.	Buildings & Equipment\Other Buildings	Other Industrial Facility	2004	2004				7/31/1994	2005	2005			N	Pending	N
HASI	4209	Emergency dump tank	Tanks\Above Ground Storage Tanks	Other Industrial Facility	2004	2004				7/31/1994	2005	2005			N	Pending	Y
HASI	4210	Stack Air Sampling & Monitoring	Buildings & Equipment\Other Buildings	Other Industrial Facility	2004	2004				7/31/1994	2005	2005			N	Pending	Y
HASI	4211	Air sampling monitor	Buildings & Equipment\Other Buildings		2014	2014				7/31/1994	2015	2015			N	Pending	Y
HASI	4212	Ex. air sample bldg.	Buildings & Equipment\Other Buildings		2011	2011				7/31/1994	2012	2012			N	Pending	Y
HASI	4213	Ex air fltr. samp. bldg.	Buildings &		2004	2004				3/31/1998	2005	2005			N	Pending	Y

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			Equipment\Other Buildings														
HASI	4214	Exhaust air sample bldg	Buildings & Equipment\Other Buildings		2002	2002				7/31/1994	2003	2003			N	Pending	N
HASI	4215	Horiz. control rod stor. cave	Buildings & Equipment\Other Buildings		2011	2011				7/31/1994	2012	2012			N		Y
HASI	4216	Horiz. control rod stor. cave	Buildings & Equipment\Other Buildings		2011	2011				7/31/1994	2012	2012			N		Y
HASI	4217	Horiz. rod cave	Buildings & Equipment\Other Buildings		2002	2002				7/31/1994	2003	2003			N		Y
HASI	4218	vlv. control house	Buildings & Equipment\Other Buildings		2003	2003				7/31/1994	2004	2004			N	Pending	Y
HASI	4219	Air filter building	Buildings & Equipment\Other Buildings	Radiological Facility	2003	2003				7/31/1994	2004	2004			N	Pending	Y
HASI	4220	Ex. air filter bldg.	Buildings & Equipment\Other Buildings		2011	2011				7/31/1994	2012	2012			N	Pending	Y
HASI	4221	Ex. air filter bldg.	Buildings & Equipment\Other Buildings		2010	2010				7/31/1994	2011	2011			N	Pending	Y
HASI	4222	Ex air filter bldg.	Buildings & Equipment\Other Buildings	Other Industrial Facility	2003	2003				3/31/1998	2004	2004			N	Pending	Y

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HASI	4223	Air stack	Miscellaneous\Other	Radiological Facility	2003	2003				7/31/1994	2004	2004			N	Pending	Y
HASI	4224	Ex. air stack	Buildings & Equipment\Other Buildings		2010	2010				7/31/1994	2011	2011			N	Pending	Y
HASI	4225	Ex. air stack	Buildings & Equipment\Other Buildings		2010	2010				7/31/1994	2011	2011			N	Pending	Y
HASI	4226	RX exhaust stack	Buildings & Equipment\Other Buildings		2003	2003				3/31/1998	2004	2004			N	Pending	Y
HASI	4227	RX exhaust stack	Buildings & Equipment\Other Buildings		2003	2003				7/31/1994	2004	2004			N	Pending	Y
HASI	4228	RX exhaust air stack	Buildings & Equipment\Other Buildings		2002	2002				7/31/1994	2003	2003			N	Pending	Y
HASI	4229	Gas recirc. bldg.	Buildings & Equipment\Other Buildings		2010	2010				7/31/1994	2011	2011			N	Pending	Y
HASI	4230	Gas recirc. bldg.	Buildings & Equipment\Other Buildings		2009	2009				7/31/1994	2010	2010			N	Pending	Y
HASI	4231	Snubber shop	Buildings & Equipment\Other Buildings		2003	2003				7/31/1994	2004	2004			Y	Pending	N
HASI	4232	Training building	Buildings & Equipment\Other Buildings		2003	2003				7/31/1994	2004	2004			N	Pending	N

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HASI	4233	Gas storage facility	Buildings & Equipment\Other Buildings		2009	2009				7/31/1994	2010	2010			N	Pending	N
HASI	4234	Gas storage facility	Buildings & Equipment\Other Buildings		2009	2009				7/31/1994	2010	2010			N	Pending	N
HASI	4235	Change room	Buildings & Equipment\Other Buildings	Other Industrial Facility	2003	2003				7/31/1994	2004	2004			N	Pending	Y
HASI	4236	STM/flow inst.	Buildings & Equipment\Other Buildings							7/31/1994			9/30/1996		N		Y
HASI	4237	Heat ex. bldg.	Buildings & Equipment\Other Buildings	Radiological Facility	2002	2002				7/31/1994	2003	2003			N	Pending	Y
HASI	4238	Chem. unld. bldg.	Buildings & Equipment\Other Buildings	Other Industrial Facility	2002	2002				7/31/1994	2003	2003			N	Pending	N
HASI	4239	Recr. cooling bldg.	Buildings & Equipment\Other Buildings	Radiological Facility	2014	2014				7/31/1994	2015	2015			N	Pending	Y
HASI	4240	Fisn. prod. trap	Buildings & Equipment\Other Buildings	Radiological Facility	2002	2002				7/31/1994	2003	2003			N	Pending	Y
HASI	4241	Remote air intk.	Buildings & Equipment\Other Buildings	Other Industrial Facility	2002	2002				7/31/1994	2003	2003			N	Pending	N
HASI	4242	Emer. diesel gen.	Buildings & Equipment\Other Buildings							7/31/1994			9/30/1996		N		N

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HASI	4243	Emer. DSL enclosure	Buildings & Equipment\Other Buildings	Other Industrial Facility	2002	2002				7/31/1994	2003	2003			N	Pending	Y
HASI	4244	Water tunnels	Buildings & Equipment\Other Buildings		2009	2009				7/31/1994	2010	2010			N	Pending	N
HASI	4245	Water tunnels	Buildings & Equipment\Other Buildings		2025	2025				7/31/1994	2026	2026			N	Pending	N
HASI	4246	Water tunnels	Buildings & Equipment\Other Buildings		2002	2002				7/31/1994	2003	2003			N		N
HASI	4247	Water tunnels	Buildings & Equipment\Other Buildings							7/31/1994			9/30/1995		N	Pending	N
HASI	4248	Fan room	Buildings & Equipment\Other Buildings		2002	2002					2003	2003			N		Y
HASI	4249	Water tunnels	Buildings & Equipment\Other Buildings							7/31/1994					Y		N
HASI	4250	High tanks	Tanks\Above Ground Storage Tanks							7/31/1994			9/30/1996		N	Pending	N
HASI	4251	Fan room	Buildings & Equipment\Other Buildings												N		Y
HASI	4252	Tritium vault	Buildings & Equipment\Other Buildings							7/31/1994			9/30/1996		N		N

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HASI	4253	Unirr. fuel storage	Buildings & Equipment\Other Buildings		2002	2002				7/31/1994	2003	2003			N	Pending	N
HASI	4254	Unirr. fuel storage	Buildings & Equipment\Other Buildings							7/31/1994			6/30/1997		N	Pending	N
HASI	4255	Riverlines	Miscellaneous\Other		2009	2009				7/31/1994	2010	2010			N		Y
HASI	4256	Riverlines	Miscellaneous\Other		2009	2009				7/31/1994	2010	2010			N		Y
HASI	4257	Riverlines	Miscellaneous\Other		2009	2009				7/31/1994	2010	2010			N		Y
HASI	4258	Riverlines	Miscellaneous\Other		2009	2009				7/31/1994	2010	2010			N		Y
HASI	4259	Riverlines	Miscellaneous\Other		2009	2009				7/31/1994	2010	2010			N		Y
HASI	4260	Riverlines	Miscellaneous\Other		2009	2009				7/31/1994	2010	2010			N		Y
HASI	4261	Riverlines	Miscellaneous\Other		2009	2009				7/31/1994	2010	2010			N		Y
HASI	4262	Riverlines	Miscellaneous\Other		2008	2008				7/31/1994	2009	2009			N		Y
HASI	4263	Riverlines	Miscellaneous\Other		2008	2008				7/31/1994	2009	2009			N		Y
HASI	4264	Riverlines	Miscellaneous\Other		2008	2008				7/31/1994	2009	2009			N		Y
HASI	4265	Riverlines	Miscellaneous\Other		2008	2008				7/31/1994	2009	2009			N		Y
HASI	4266	Riverlines	Miscellaneous\Other		2008	2008				7/31/1994	2009	2009			N		Y
HASI	4267	Riverlines	Miscellaneous\Other		2008	2008				7/31/1994	2009	2009			N		Y
HASI	4268	Riverlines	Miscellaneous\Other		2008	2008				7/31/1994	2009	2009			N		Y
HASI	4269	Biology lab bldg.	Buildings & Equipment\Laboratory	Non-Nuclear Facility	2002	2002				7/31/1994	2003	2003			N	Pending	Y
HASI	4270	Tritium lab	Buildings & Equipment\Laboratory							7/31/1994			9/30/1996		N		Y

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HASI	4271	Administrative office bldg.	Buildings & Equipment\Administrative Building		2013	2013				7/31/1994	2014	2014			N		N
HASI	4272	Gas bottle storage	Buildings & Equipment\Storage Building / Warehouse							7/31/1994			9/30/1996		N		Y
HASI	4273	Contam. equip. storage	Buildings & Equipment\Storage Building / Warehouse		2009	2009				7/31/1994	2010	2010			N		Y
HASI	4274	Warehouse	Buildings & Equipment\Storage Building / Warehouse	Other Industrial Facility	2009	2009				7/31/1994	2010	2010			N		Y
HASI	4275	Warehouse	Buildings & Equipment\Storage Building / Warehouse		2009	2009				7/31/1994	2010	2010			N		N
HASI	4276	Warehouse & receiving	Buildings & Equipment\Storage Building / Warehouse		2008	2008				7/31/1994	2009	2009			N		N
HASI	4277	Warehouse	Buildings & Equipment\Storage Building / Warehouse		2013	2013					2014	2014			N	Pending	N
HASI	4278	Warehouse	Buildings & Equipment\Storage Building / Warehouse		2013	2013				7/31/1994	2014	2014			N	Pending	N
HASI	4279	Warehouse	Buildings & Equipment\Storage Building / Warehouse		2003	2003				7/31/1994	2004	2004			N	Pending	N
HASI	4280	Storage bldg.	Buildings & Equipment\Storage Building / Warehouse	Other Industrial Facility	2014	2014				7/31/1994	2015	2015			N	Pending	N

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HASI	4281	Maint. bldg. add.	Buildings & Equipment\Storage Building / Warehouse		2002	2002				7/31/1994	2003	2003			N	Pending	Y
HASI	4282	Storage bldg.	Buildings & Equipment\Storage Building / Warehouse							7/31/1994			9/30/1996		N		N
HASI	4283	Rvr. guard tower	Buildings & Equipment\Security Building	Other Industrial Facility	2010	2010				7/31/1994	2011	2011			N	Pending	N
HASI	4284	Vehicle inspect. bldg	Buildings & Equipment\Security Building							7/31/1994			9/30/1996		N		N
HASI	4285	Badge house	Buildings & Equipment\Security Building		2004	2004					2005	2005			N	Pending	
HASI	4286	Badge house	Buildings & Equipment\Security Building							7/31/1994			6/30/1997		N	Pending	N
HASI	4287	Ex area badge	Buildings & Equipment\Security Building							7/31/1994			6/30/1997		N	Pending	N
HASI	4288	Guard sta./PHMC Telecoms HUB	Buildings & Equipment\Security Building		2003	2003				7/31/1994	2004	2004			N	Pending	N
HASI	4289	Waste displ. vault, underground	Buildings & Equipment\Physical Plant		2039	2039					2040	2040			N		
HASI	4290	Waste compactor bldg.	Buildings & Equipment\Physical		2034	2034					2035	2035			N		

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Project **RL-ER06 / Decontamination and Decommissioning**

Facility Decommissioning

Site Code	RSF ID	Change Description Flag	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
Plant																	
HASI	4291	Air handler main	Buildings & Equipment\Physical Plant	Other Industrial Facility	2012	2012				7/31/1994	2013	2013			N	Pending	N
HASI	4292	Power house	Buildings & Equipment\Physical Plant	Other Industrial Facility	2011	2011				7/31/1994	2012	2012			N	Pending	N
HASI	4293	Underground conden. neutraliz.	Tanks\Underground Storage Tanks		2036	2036					2037	2037			N		
HASI	4294	Liquid eff. reten.	Liquid Surface Impoundments\Holding Ponds	Other Industrial Facility	2004	2004				7/31/1994	2005	2005			N	Pending	Y
HASI	4295	Decon sta. waste tanks	Tanks\Underground Storage Tanks		2002	2002				7/31/1994	2003	2003			N		Y
HASI	4296	TSD solar evaporation basin	Liquid Surface Impoundments\Settling and Separation Basins							7/31/1994		9/30/1996			N		Y
HASI	4297	Sewage treatment TK (N9)	Tanks\Septic Tanks	Other Industrial Facility	2007	2007					2008	2008			N		N
HASI	4298	Sewage treatment TK (N3)	Tanks\Septic Tanks	Other Industrial Facility	2007	2007					2008	2008			N		N
HASI	4299	Sewage treatment TK (N2)	Tanks\Septic Tanks	Other Industrial Facility	2007	2007					2008	2008			N		N
HASI	4300	Sewage treatment TK (N1)	Tanks\Septic Tanks	Other Industrial Facility	2007	2007					2008	2008			N		N
HASI	4301	Rad. liq. & WST treatment fcly. Waste\Silos	Radiological Facility		2014	2014				7/31/1994	2015	2015			N	Pending	Y
HASI	4302	Rad dummy burial facility	Waste\Silos	Other Industrial	2004	2004				7/31/1994	2005	2005			N		Y

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Facility Decommissioning

Site Code	RSF ID	Change Description Flag	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
Facility																	
HASI	4303	Emergency dump basin	Liquid Surface Impoundments\Settling and Separation Basins	Other Industrial Facility	2004	2004				7/31/1994	2005	2005			N	Pending	Y
HASI	4304	Outfall structure	Waste\Trenches / Outfalls	Other Industrial Facility	2013	2013				7/31/1994	2014	2014			N	Pending	Y
HASI	4305	Outfall structure	Waste\Trenches / Outfalls		2004	2004				7/31/1994	2005	2005			N		Y
HASI	4306	Outfall structure	Waste\Trenches / Outfalls							7/31/1994					N		Y
HASI	4307	Outfall structure	Waste\Trenches / Outfalls		2002	2002				7/31/1994	2003	2003			N		Y
HASI	4308	Old septic system	Liquid Surface Impoundments\Seepage Basins	Other Industrial Facility	2013	2013				7/31/1994	2014	2014			N		Y
HASI	4309	Clearwell overflow pond	Liquid Surface Impoundments\Seepage Basins		2011	2011				7/31/1994	2012	2012			N	Pending	N
HASI	4310	Filter backwash	Liquid Surface Impoundments\Sumps		2011	2011				7/31/1994	2012	2012			N	Pending	N
HASI	4311	Reactor (decommission)	Buildings & Equipment\Production Reactor	Radiological Facility	2027	2027				7/31/1994	2028	2028			N	Pending	Y
HASI	4312	Reactor (decommission)	Buildings & Equipment\Production Reactor	Radiological Facility	2026	2026				7/31/1994	2027	2027			N	Pending	Y
HASI	4313	Reactor (decommission)	Buildings & Equipment\Production Reactor	Radiological Facility	2025	2025				7/31/1994	2026	2026			N	Pending	Y

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Facility Decommissioning

Site Code	RSF ID	Change Description Flag	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	4314	Reactor (decommission)	Buildings & Equipment\Production Reactor	Radiological Facility	2024	2024				7/31/1994	2025	2025			N	Pending	Y
HASI	4315	Reactor (decommission)	Buildings & Equipment\Production Reactor	Radiological Facility	2023	2023				7/31/1994	2024	2024			N	Pending	Y
HASI	4316	Reactor (decommission)	Buildings & Equipment\Production Reactor	Radiological Facility	2021	2021				3/31/1998	2022	2022			N	Pending	Y
HASI	4317	Reactor (decommission)	Buildings & Equipment\Production Reactor	Radiological Facility	2022	2022				7/31/1994	2023	2023			N		Y
HASI	4318	Reactor (decommission)	Buildings & Equipment\Production Reactor	Radiological Facility	2020	2020				7/31/1994	2021	2021			Y		Y
HASI	4319	Reactor (decommission)	Buildings & Equipment\Production Reactor		2029	2029				7/31/1994	2030	2030			N	Pending	Y
HASI	8430	Semiworks	\		2017	2017					2018	2018					
HASI	8431	Waste Incineration	\		2042	2042					2043	2043					
HASI	8432	Badge house (SEA)	\														
HASI	8433	Motor Gener.	\														
HASI	8434	Hyd. Power Unit	\														

Facility Deactivation

Site Code	RSF ID	Change Description Flag	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
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Project **RL-ER06 / Decontamination and Decommissioning**

HASI	3082	Waste neutralization facility	\	2033	2033		2034	2034		N	Y
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Facility Deactivation

Site Code	RSF ID	Change Description Flag	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	3201	Uranium concrete facility	\		2002	2002					2003	2003				N	

Facility Deactivation

Site Code	RSF ID	Change Description Flag	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	3117	Post irradiation test laboratory	\		2010	2010					2012	2012				N	Y

Technology Needs

Site Need Code: RL-DD017

Site Need Name: Segregation of Waste for the D&D Program for the Purpose of Disposal.

Focus Area Work Package ID: DD-05

Focus Area Work Package: Material Recycle and Release

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Waste Inspection Tomography (WIT)

Cost Savings (in thousands of dollars)

Range of Estimate

Characterization Development

Segmented Gate System

Decommissioning In-Situ Plutonium Inventory Monitor (DISPIM)

WIPP Certifiable TRU Standard Waste Box Counter

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Project **RL-ER06 / Decontamination and Decommissioning**

Technology Needs

Site Need Code: RL-DD021

Site Need Name: Metal Decontamination and Recycling for the D&D Program

Focus Area Work Package ID: DD-05

Focus Area Work Package: Material Recycle and Release

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Laser Surface Cleaning

Cost Savings (in thousands of dollars)

Range of Estimate

Stainless Steel Beneficial Reuse

Laser Decontamination and Recycle of Metals

Removal of Contaminants from Equipment and Debris, and Waste Minimization Using TECHXTRACT

SEG Recycle and Reuse of Radioactively Contaminated Scrap Metal

Soft Media Blast Cleaning

Advanced Recyclable Media System

Site Need Code: RL-DD029

Site Need Name: Critically Safe Vacuum System for 233-S

Focus Area Work Package ID: DD-08

Focus Area Work Package: Separation Process Facilities D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

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Project **RL-ER06 / Decontamination and Decommissioning**

Technology Needs

Site Need Code: RL-DD030

Site Need Name: Cutting Plutonium Contaminated Pipe for 233-S.

Focus Area Work Package ID: DD-08

Focus Area Work Package: Separation Process Facilities D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Hand Held Shear

Cost Savings (in thousands of dollars) **Range of Estimate**

Site Need Code: RL-DD031

Site Need Name: Non-Intrusive Detection of Pipe Contents for 233-S.

Focus Area Work Package ID: DD-08

Focus Area Work Package: Separation Process Facilities D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Detection of Free Standing Liquids

Cost Savings (in thousands of dollars) **Range of Estimate**

Site Need Code: RL-DD032

Site Need Name: Contamination Fixative for 233-S

Focus Area Work Package ID: DD-08

Focus Area Work Package: Separation Process Facilities D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Reactor Surface Contamination Stabilization

Cost Savings (in thousands of dollars) **Range of Estimate**

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Technology Needs

Site Need Code: RL-DD033

Site Need Name: Field Screening for Hazardous Materials for 105-F and 105-DR Reactors

Focus Area Work Package ID: DD-10

Focus Area Work Package: Production Reactor D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Portable Sensor for Hazardous Waste

Cost Savings (in thousands of dollars) **Range of Estimate**

Portable X-Ray, K-Edge Heavy Metal Detector

Portable X-Ray Fluorescence Spectrometer

Site Need Code: RL-DD034

Site Need Name: Remote/Robotic Technologies for Access and Deployment of Characterization and Sampling Tools for CDI.

Focus Area Work Package ID: DD-03

Focus Area Work Package: Canyon Disposition Initiative

Focus Area: DDFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Internal Duct Characterization System

Cost Savings (in thousands of dollars) **Range of Estimate**

Small Pipe Characterization System (SPCS)

Pipe Explorer (TM) System

2-D Linear Motion System

Pipe Crawler Internal Piping Characterization System

Indoor Radiation Mapping Using Laser Assisted Ranging and Data System

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Project **RL-ER06 / Decontamination and Decommissioning**

Technology Needs

CDI Remote Characterization System

Robotics Crawler

Site Need Code: RL-DD035

Site Need Name: Visual/Spatial Imaging of the 221-U Facility and Equipment for CDI.

Focus Area Work Package ID: DD-03

Focus Area Work Package: Canyon Disposition Initiative

Focus Area: DDFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Interactive, Computer-Enhanced, Remote-Viewing System

Cost Savings (in thousands of dollars)

Range of Estimate

Gamma Ray Imaging System

Gamma Cam (TM) Radiation Imaging System

In Situ Object Counting System

Robot Task Space Analyzer

CDI Remote Characterization System

Site Need Code: RL-DD036

Site Need Name: General Radiation Surveys of Concrete and Equipment in the Materials Processing Facilities for CDI.

Focus Area Work Package ID: DD-03

Focus Area Work Package: Canyon Disposition Initiative

Focus Area: DDFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Internal Duct Characterization System

Cost Savings (in thousands of dollars)

Range of Estimate

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Project **RL-ER06 / Decontamination and Decommissioning**

Technology Needs

Small Pipe Characterization System (SPCS)

Pipe Explorer (TM) System

Three Dimensional, Integrated Characterization and Archiving System (3D-ICAS)

Gamma Ray Imaging System

Mobile Automated Characterization System

Pipe Crawler Internal Piping Characterization System

Gamma Cam (TM) Radiation Imaging System

Surface Contamination Monitor and Survey Information Management System (SCM/SIMS)

Indoor Radiation Mapping Using Laser Assisted Ranging and Data System

In Situ Object Counting System

Site Need Code: RL-DD037

Site Need Name: Detection of Freestanding Liquid in Equipment (e.g., tanks) and Piping for CDI.

Focus Area Work Package ID: DD-03

Focus Area Work Package: Canyon Disposition Initiative

Focus Area: DDFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Portable X-Ray, K-Edge Heavy Metal Detector

Measurement of Radionuclides Using Ion Chromatography and Flow-Cell Scintillation Counting

Associated Particle Imaging Development

Detection of Free Standing Liquids

Cost Savings (in thousands of dollars)

Range of Estimate

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Project **RL-ER06 / Decontamination and Decommissioning**

Technology Needs

Site Need Code: RL-DD038

Site Need Name: Characterization of Liquids in Equipment (e.g., tanks) and Pipes for CDI.

Focus Area Work Package ID: DD-03

Focus Area Work Package: Canyon Disposition Initiative

Focus Area: DDFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Portable X-Ray, K-Edge Heavy Metal Detector

Cost Savings (in thousands of dollars)

Range of Estimate

Measurement of Radionuclides Using Ion Chromatography and Flow-Cell Scintillation Counting

Associated Particle Imaging Development

Detection of Free Standing Liquids

Site Need Code: RL-DD039

Site Need Name: Characterization of Solids (Sediments/Sludge/Dust) on Floors and Walls, and in Equipment in the Materials Processing Facilities for CDI.

Focus Area Work Package ID: DD-03

Focus Area Work Package: Canyon Disposition Initiative

Focus Area: DDFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Portable Sensor for Hazardous Waste

Cost Savings (in thousands of dollars)

Range of Estimate

Portable X-Ray, K-Edge Heavy Metal Detector

Associated Particle Imaging Development

Portable X-Ray Fluorescence Spectrometer

Ground Based Laser Induced Fluorescence Imaging

Electret Ion Chambers

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Project **RL-ER06 / Decontamination and Decommissioning**

Technology Needs

Site Need Code: RL-DD040

Site Need Name: Characterization of Concrete Floors and Walls in the Materials Processing Facilities for CDI.

Focus Area Work Package ID: DD-03

Focus Area Work Package: Canyon Disposition Initiative

Focus Area: DDFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

	<u>Cost Savings (in thousands of dollars)</u>	<u>Range of Estimate</u>
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Three Dimensional, Integrated Characterization and Archiving System (3D-ICAS)

Gamma Ray Imaging System

Mobile Automated Characterization System

Gamma Cam (TM) Radiation Imaging System

Surface Contamination Monitor and Survey Information Management System (SCM/SIMS)

Indoor Radiation Mapping Using Laser Assisted Ranging and Data System

In Situ Object Counting System

Cogema 3-D Gamma Imaging

Site Need Code: RL-DD022-S

Site Need Name: Photon Assisted Decontamination Chemistry

Focus Area Work Package ID: DD-08

Focus Area Work Package: Separation Process Facilities D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

	<u>Cost Savings (in thousands of dollars)</u>	<u>Range of Estimate</u>
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Project **RL-ER06 / Decontamination and Decommissioning**

Technology Needs

Site Need Code: RL-DD026-S

Site Need Name: Contaminant Binding Science Need

Focus Area Work Package ID: DD-08

Focus Area Work Package: Separation Process Facilities D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

<u>Cost Savings (in thousands of dollars)</u>	<u>Range of Estimate</u>
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Site Need Code: RL-DD033-S

Site Need Name: Reaction of Neutrons with Detectors for Building 324

Focus Area Work Package ID: DD-10

Focus Area Work Package: Production Reactor D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

<u>Cost Savings (in thousands of dollars)</u>	<u>Range of Estimate</u>
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Site Need Code: RL-DD060

Site Need Name: Characterization for Waste Handling, Packaging and Processing for 233-S

Focus Area Work Package ID: DD-08

Focus Area Work Package: Separation Process Facilities D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

<u>Cost Savings (in thousands of dollars)</u>	<u>Range of Estimate</u>
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Project **RL-ER06 / Decontamination and Decommissioning**

Technology Needs

Site Need Code: RL-DD062

Site Need Name: A Method to Capture Airborne Alpha Contamination for 233-S

Focus Area Work Package ID: DD-08

Focus Area Work Package: Separation Process Facilities D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

<u>Cost Savings (in thousands of dollars)</u>	<u>Range of Estimate</u>
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Site Need Code: RL-DD063

Site Need Name: Decontamination of Transuranic Debris for 233-S

Focus Area Work Package ID: DD-08

Focus Area Work Package: Separation Process Facilities D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

<u>Cost Savings (in thousands of dollars)</u>	<u>Range of Estimate</u>
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Project **RL-ER06 / Decontamination and Decommissioning**

Technology Needs

Site Need Code: RL-DD064

Site Need Name: Characterization of the 105-F Spent Fuel Basin

Focus Area Work Package ID: DD-04

Focus Area Work Package: Graphite Reactor D&D

Focus Area: DDFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars) **Range of Estimate**

Site Need Code: RL-DD065

Site Need Name: Backfill Removal and Segregation for the 105-F Spent Fuel Basin

Focus Area Work Package ID: DD-10

Focus Area Work Package: Production Reactor D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars) **Range of Estimate**

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Project **RL-ER06 / Decontamination and Decommissioning**

Technology Needs

Site Need Code: RL-DD066

Site Need Name: Material Removal and Segregation for the 105-F Spent Fuel Basin

Focus Area Work Package ID: DD-04

Focus Area Work Package: Graphite Reactor D&D

Focus Area: DDFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Site Need Code: RL-DD061

Site Need Name: Remote systems for characterization and clean up of the 233-S Process Hood

Focus Area Work Package ID: DD-08

Focus Area Work Package: Separation Process Facilities D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Technology Deployments

Deployment Year		
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Deployment Status

Planned

Forecast

Actual Date

Technology Name: Mobile Integrated Temporary Utility System

Deployment Commitment

1999

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Technology Deployments

Deployment Year		
<u>Deployment Status</u>	<u>Planned</u>	<u>Forecast</u>
<u>Actual Date</u>		

Technology Name: High Speed Clamshell Pipe Cutter

Deployment Commitment

Technology Name: Oxy-Gasoline Torch

Deployment Commitment 1998

Technology Name: Personal Ice Cooling System (PICS)

Potential Deployment 1999

Technology Name: Surface Contamination Monitor and Survey Information Management System (SCM/SIMS)

Deployment Commitment 1999

Technology Name: Indoor Radiation Mapping Using Laser Assisted Ranging and Data System

Deployment Commitment 1999

Technology Name: Concrete Shaver

Deployment Commitment

Technology Name: Heat Stress Monitoring System

Deployment Commitment

Technology Name: Sealed-Seam Sack Suit

Deployment Commitment 2000

Technology Name: Concrete Grinder

Deployment Commitment

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Project **RL-ER06 / Decontamination and Decommissioning**

Technology Deployments

Deployment Year		
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<u>Deployment Status</u>	<u>Planned</u>	<u>Forecast</u>	<u>Actual Date</u>
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Technology Name: RESRAD-Build

Deployment Commitment 1999

Technology Name: Wireless Remote Monitoring System

Deployment Commitment

Technology Name: Concrete Spaller

Deployment Commitment

Technology Name: Compact Subsurface Investigation System

Deployment Commitment

Technology Name: Concrete Dust Supression System

Deployment Commitment

Technology Name: Century Alpha CAM

Deployment Commitment